

The new
marketplace

100 OPERATIONS SUMMARY

FY

Western Area Power Administration

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The New Marketplace

This FY 1999 Operations Summary from Western Area Power Administration provides insight into our role in the electric utility industry's evolving marketplace.

For most of this century, the industry operated in a regulated environment. Today, competition is transforming the landscape. It's changing not only the way electricity is marketed, but every facet of the industry. As the industry restructures itself and as services such as generation, transmission, distribution and end-use retail services are unbundled into separate markets, utilities will have to choose how to respond. Already some utilities have decided to divest generation assets and focus on transmission and distribution. Other market players are choosing to construct new merchant plants. Still others are exploring creative ways to combine and market electricity with other services.

At the same time, many states are independently studying and implementing legislation designed to open wholesale and even retail markets to competition. Congress is grappling with similar issues on a nationwide scale. This dynamic setting means there is little uniformity in "how the game is played" from state to state and region to region. It also means the field is wide open for innovation.

Western finds itself in the thick of this newly unfolding environment. This report highlights ways Western has responded to change and industry restructuring.

NOTE: This summary does not include financial statements. Audited figures will appear in our FY 2000 Annual Report after our new financial system is stabilized.

WESTERN AT A GLANCE

Marketing Profile

	1999	1998
Firm energy revenue	\$583 million	\$578 million
Nonfirm energy revenue	\$139 million	\$142 million
Total energy sales	45.1 billion kWh	45.0 billion kWh
Composite firm rate	16.02 mills	15.64 mills
Coincident peak load (est.)	6,768 MW	6,667 MW

Customer Profile

	Number	Sales (billion kWh)	Energy Revenue (million \$)
Municipalities	284	11.1	171.6
Cooperatives	58	8.7	146.1
Public utility districts	17	4.2	83.1
Federal agencies	50	2.4	36.2
State agencies	55	11.3	157.9
Irrigation districts	47	0.6	8.0
Investor-owned utilities	24	3.1	64.3
Power marketers	30	1.6	33.6
Project use (Reclamation)	78	1.6	10.5
Interproject sales		0.5	10.4
Firm customers	576	38.7	582.6
Nonfirm customers	67 ¹	6.4	139.1
Total customers	643	45.1	721.7

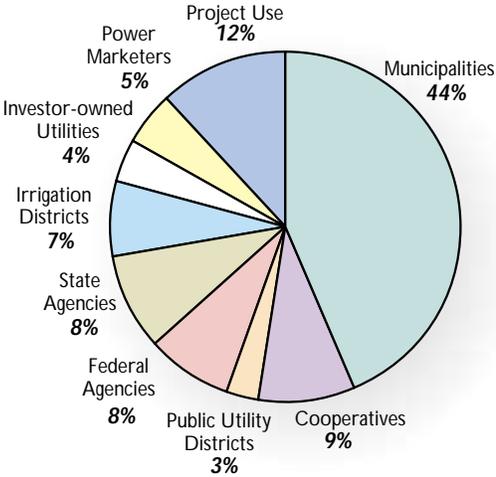
¹ Excludes 73 firm power customers who also purchased nonfirm power.

Integrated Resource Plan Profile

Integrated resource plans submitted	178
Small customer plans submitted	122
Customers and members represented	699

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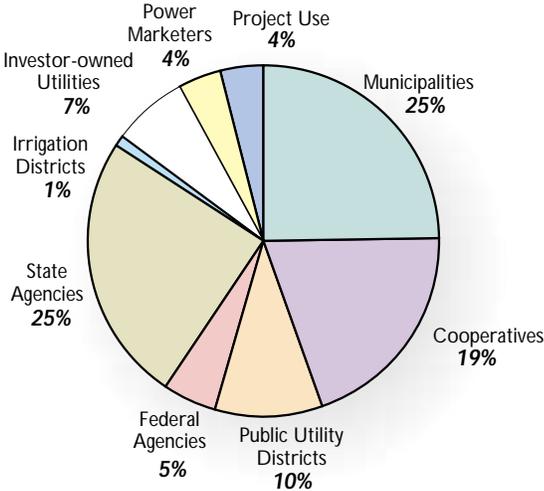
Customer Mix



Resource Profile

Hydro powerplants	55
Thermal powerplants	1
Total powerplants	56
Maximum operating capability	10,564 MW
Total units	181
Net generation	39,844 GWh
Purchased power	6,898 GWh

Where Our Energy Goes (kWh)



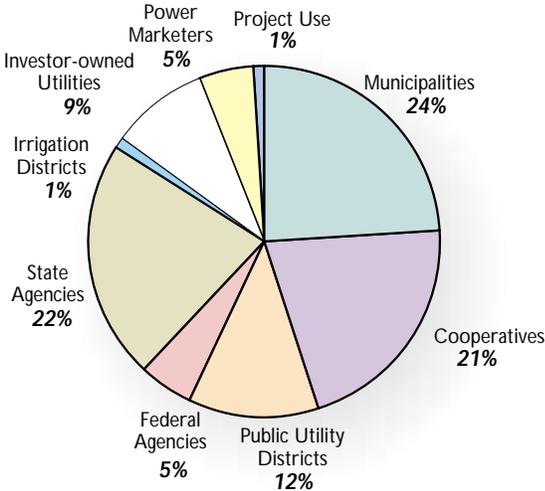
Transmission System Profile

Communication sites	359
Substations	256
Transmission lines	16,819 miles
Transformer capacity	26,444,848 kVa

Employee Profile

Federal (authorized FTE)	1,289
Contractor	246

Where Our Revenue Comes From (\$)



FROM THE ADMINISTRATOR

I am pleased to provide our Fiscal Year 1999 Operations Summary. This report reflects our commitment to provide our customers with reliable, cost-based hydropower, keeping them competitive in an in a rapidly changing marketplace.

In FY 1999, we sold more than 45 million megawatthours of energy resulting in \$722 million in revenue. After meeting project and other expenses, we repaid \$143 million of our Federally financed power investment, up from FY 1998's \$136 million repayment. Cumulatively, we have repaid \$2.7 billion, or about 29 percent, of our \$9.1 billion total investment.

At the same time, we continue to play a vital role in ensuring reliability throughout much of the West. Western staff serve on key positions in the North American Electric Reliability Council and two of its regional councils, which span much of the Great Plains and West. We also signed a contract with the Western Systems Coordinating Council that helped launch a pilot program for a new mandatory reliability standards initiative. During the pilot, we exceeded both NERC's minimum criteria and the average of industry participants.

The rise of merchant plants, in response to the nation's growing energy needs, presents a new arena in which we are playing an expanding role. In our service area, 52 merchant plants with a potential generating capacity of nearly 28,000 MW are planned or under construction. A dozen have requested interconnections with our transmission system. Through our design and environmental compliance work with these projects, we are helping maintain reliability in the West at minimal impact to the environment.

We continue to play a vital role as a wholesale power marketer. In FY 1999, above-average water runoff resulted in increased power production. These conditions allowed us to

sell surplus power at optimal market prices, while still meeting project and firm power customer needs. These excess sales are used to offset operating costs and keep our rates low, further helping our customers maintain competitively lower rates.

We are also exploring new opportunities with Indian tribes across the West. Twenty-five tribes in the Upper Great Plains have signed contracts for firm power allocations, allowing them to receive the benefits of Federal hydropower. For some tribes, obtaining Federal hydropower will save millions annually.

I am pleased also to report that Western adopted a revised Strategic Plan in FY 1999, bringing us into full compliance with the Government Performance and Results Act. In addition, we completed an FY 1999 Annual Performance Plan that ties our annual budget request to our strategic goals.

In FY 1999, the American Public Power Association recognized us for working safely, and we successfully contained our O&M cost growth to 0.3 percent.

While we are proud of these achievements, the next year promises more "interesting times." Constrained budget levels, the emergence of regional transmission organizations and the changing complexion of the power industry will place increasing demands on us, but also will present new opportunities. With our talent and resources, Western will meet these challenges. We welcome working with customers, suppliers, industry organizations, power marketers and other agencies in defining the industry's new marketplace in the 21st century.


Michael S. HacsKaylo
Administrator

WESTERN PROFILE

Western Area Power Administration annually markets and transmits approximately 10,000 megawatts of power from 55 hydropower plants. We market about 40 percent of hydroelectric power generated in our service territory. Western also markets the United States' 547-MW entitlement from the coal-fired Navajo Generating Station near Page, Ariz.

Western's service area covers 1.3 million square miles in 15 states. We provide project-use power to 78 U.S. Bureau of Reclamation customers. After providing project-use power, we sell the remaining power to 643 wholesale customers including 284 municipalities, 58 cooperatives, 17 public utility and 47 irrigation districts, 50 Federal and 55 state agencies, 24 investor-owned utilities (only one of which purchases firm power from Western) and 30 marketers that purchase surplus nonfirm power. They, in turn, provide retail electric service to millions of consumers in these central and western states: Arizona, California, Colorado, Iowa, Kansas, Minnesota, Montana, Nebraska, Nevada, New Mexico, North Dakota, South Dakota, Texas, Utah and Wyoming.

Western operates and maintains an extensive, integrated and complex high-voltage power transmission system to deliver power to our customers. Using this 16,819 circuit-mile Federal transmission system, Western markets and delivers reliable electric power to most of the western half of the United States.

Except for the Central Arizona Project's Navajo generation, these power facilities are part of 11 rate-setting systems. These are made up of 14 multipurpose water resource projects and one transmission project. The systems include Western's transmission facilities and power generation facilities owned and operated by the U.S. Bureau of Reclamation, the U.S. Army Corps of Engineers and the International Boundary and Water Commission.

Western and the generation entities are separately managed and financed. Each project maintains a separate financial system and records. Each entity operates and maintains its portion of the multipurpose projects and allocates its operating expenses among the projects. Costs are allocated among individual project purposes. These purposes can include navigation, irrigation, flood control, power, fish and wildlife, recreation and municipal and industrial water supply. Western's financial statements include only the costs assigned to power for repayment.

Power sales, transmission operations and maintenance and engineering services for our system are accomplished by our employees at 51 duty stations located throughout our service area. These include our Corporate Services Office in Lakewood, Colo., and four customer service regions with offices in Billings, Mont.; Loveland, Colo.; Phoenix, Ariz.; and Folsom, Calif. We also market power from our Colorado River Storage Project Management Center in Salt Lake City, Utah. System operations and maintenance are managed at offices in Bismarck, N.D.; Fort Peck, Mont.; Huron, S.D.; and Watertown, S.D.

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Legislative Authority

Congress established Western on Dec. 21, 1977, under Section 302 of the Department of Energy Organization Act. Under this statute, power marketing responsibilities and the transmission system assets previously managed by Reclamation were transferred to Western.

Financing Methods

Our power marketing program includes three principal activities: operation and maintenance; purchase power and wheeling; and construction and rehabilitation. Each year, Congress appropriates funds to finance expenses for most of our power systems including the Pick-Sloan Missouri Basin Program, Central Valley Project, Parker-Davis Project and the Pacific Northwest-Pacific Southwest Intertie Project.

Our appropriation also includes an annual contribution for the Utah Reclamation Mitigation and Conservation Account as specified in the Reclamation Projects Authorization and Adjustment Act of 1992. Existing legislation allows for the Colorado River Storage (and its participating projects, Dolores and Seedska-dee), Central Arizona and Fort Peck projects to operate with power receipts through a revolving fund. Under the Foreign Relations Authorization Act, in fiscal years 1994 and 1995, a separate appropriation was provided to operate and maintain Falcon and Amistad project facilities for the International Boundary and Water Commission.

While Western receives annual appropriations to finance our operations, power rates are set to recover all costs associated with our activities, as well as repay the Federal investment in power facilities, with interest, and certain costs assigned to power such as aid to irrigation development.

We currently finance a significant amount (68 percent in FY 99) of our Purchase Power and Wheeling Program through nonappropriated, alternative financing methods, such as bill crediting, net billing, reimbursements and nonappropriation transfers.

Boulder Canyon Project is financed through permanent appropriations from the Colorado River Dam Fund. Parker-Davis Project and Central Valley Project customers also provide advance funding to finance certain power system expenses and capital improvements, respectively. We also do work for other Federal and non-Federal organizations under authority of the Economy Act, the Contributed Funds Act and the Interior Department Appropriations Act of 1928.

1999 ACCOMPLISHMENTS

Power Marketing Review

In FY 1999, Former Deputy Energy Secretary Elizabeth Moler directed Western to answer a number of questions about how we will market power in the future. After an exhaustive public process and consideration of public comment, we published our response in the Federal Register. This effort will help chart our future power marketing efforts.

Standards of Conduct

On Feb. 1, 1999, we implemented new Standards of Conduct to comply with Federal Energy Regulatory Commission Order No. 889. The Order required the separation of transmission functions from power marketing functions and restricts communications between power marketing and transmission operations employees. In FY 1999, we began complying by making transmission availability and price information available to all market participants, both our marketing staff and others, at the same time through an electronic system called Open Access Same-time Information System. FERC approved Western's Standards of Conduct filing on April 1, 1999.

Marketing Plans

We completed marketing plans for the Central Valley Project and Salt Lake City Area/Integrated Projects. Under these plans we will renew contracts with nearly 200 existing customers and provide a percentage of each respective project's total resources for allocations to new customers, including Native American tribes.

Tribal Allocations

In FY 1999, we negotiated and signed contracts with 25 Native American tribes in the Upper Great Plains Region. For certain tribes, this results in savings of several million dollars annually. Because the tribes agreed to alternative financing arrangements, Western was able to execute these agreements without increasing our need for appropriations to purchase power.

Restructuring

Western is changing its business practices to meet the varying challenges of industry restructuring. The most dramatic changes occurred in the Sierra Nevada and Desert Southwest regions. Sierra Nevada began conducting transactions for customers through the California Power Exchange to expand customers' resource options. We also have worked extensively with the California Independent System Operator to coordinate issues affecting reliability. The SN Region has been certified as a scheduling coordinator by the California Independent System Operator to conduct power transactions on behalf of customers. In the DSW Region, we continue to play an important role in the ongoing development of Desert STAR, a newly evolving regional transmission organization. DSW also completed an inter-control area agreement with the California ISO to improve coordination of transmission transactions across the boundaries of the two control areas.

Renewable Energy

Western's Non-Hydro Renewable Resources Program was recognized in FY 1999 as a leader in facilitating renewable energy development among our customers and across our service territory. Because of the program's involvement in the President's Million Solar Roofs Initiative and the Secretary of Energy's Wind Power America Initiative, we were able to leverage more than \$318,000 in funding from external sources to assist customers in implementing renewable energy programs and projects. Through an Energy Department matching grant, each of our regions conducted on-site solar photovoltaic installation workshops, providing customers and industry leaders with hands-on training.

Strategic Plan

We also revised our Strategic Plan in FY 1999. The plan established clear goals and measurements to determine whether we meet those goals. We are using this to help us chart a course and mark our accomplishments as we face changes in the utility industry.

Integrated Resource Planning

In FY 1999, we launched a comprehensive public process to review and revise integrated resource planning criteria. Changes in the power industry and requirements in the Energy Policy Act of 1992 led to the criteria reassessment. Through workshops and requests for public comment, we gathered input from customers and stakeholders on ways to streamline the IRP process and make it more flexible. We expect to publish a final rule for IPR criteria in the Federal Register by spring 2000.

Energy Services

FY 1999 was another year of effective partnering for our Energy Services Program. Several technical workshops across our service territory were coordinated and cost-shared with customers. We began developing a series of residential energy fact sheets through our partnership with the Energy Information Clearinghouse. We also provided toll-free technical assistance to customers through our Power Line (1-800-POWERLN) and Energy Services Web site (www.es.wapa.gov). Through a partnership with the Southeastern Power Administration, Western initiated the Utility Options for a Competitive Edge online restructuring database for community-owned utilities at www.utilityoptions.org. The web site provides more than 200 case studies on how energy services help prepare public power entities for competition.

Environmental Program Assessment

In FY 1999, we began assessing our environmental programs in our Rocky Mountain Region and Corporate Support Office. Westernwide assessments have been started and we are developing an Environmental Management system. The self-assessments will provide a blueprint for future environmental programs.

Safety

Acknowledging our high safety standards, the American Public Power Association honored us with a second place award in its annual APPA Safety Contest. APPA has recognized our safety record in nine out of the last 11 years. We also limited lost or restricted workdays to 175 days in FY 1999, well below our goal of 225 days. Our overall safety rating of 2.4 was well below the industry rating of 5.1.

Y2K

We used significant resources during FY 1999 to fix Y2K computer problems. We identified and cataloged existing systems and equipment and then conducted extensive testing to identify non-compliant items. Noncompliant equipment and systems were either repaired or replaced, and Y2K compliant systems were thoroughly tested. To ensure readiness and compliance, we developed contingency plans and participated in industry-sponsored Y2K drills.

Customer Partnerships

At the request of Citizen's Utility Company, a Western customer serving Nogales, Ariz., we upgraded Citizens' substation and resolved synchronization problems to enhance area reliability in FY 1999. Operating on an accelerated schedule, we completed the upgrade in less than seven months.

In the Sierra Nevada Region, our customers agreed to provide funding to replace the turbine runners on three units at Shasta Dam. Customers also continued a funding program for O&M activities on the Central Valley Project power system.

We completed construction of Topock Substation for Arizona Electric Power Cooperative. AEPCO contracted with us to provide these services because it did not have the design and construction expertise needed to meet its expanding load.

Reliability

In FY 1999, each of our four control areas, which balance generation and load within given portions of the power grid, easily met the North American Electric Reliability Council's new Control Performance Standards. The CPS 1 standard measures short-term error between load and generation. The CSP2 standard places boundaries on CPS1 to prevent adverse power flows.

Minimum acceptable performance standard for CPS1 is 100 percent; perfect performance is 200 percent, although under certain conditions this level can be exceeded. Western's CPS1 average was 199 percent. Minimum acceptable performance standard for CPS2 is 90 percent; perfect performance is 100 percent. Western's average was 98 percent. Industry averages were 174 percent for CSP1 and 94 percent for CSP 2.

In addition, NERC honored us on its Generating Availability Data System's Honor Roll for timely and accurately reporting of availability data for 39 U. S. Army Corps of Engineers and Bureau of Reclamation hydrogenerating units in the Upper Great Plains Region.

Reliability-Centered Maintenance

In FY 1999, we adopted the use of a reliability-centered maintenance program to help optimize and better document our existing maintenance program. The RCM philosophy focuses on analyzing, modifying and prioritizing maintenance tasks using equipment criticality decisions. The RCM program provides a structured approach to record the reasons behind each of the maintenance decisions affecting what tests are performed, what initiates a test, what maintenance is performed and if any engineering changes need to be done to ensure reliability. We are training our staff in the RCM philosophy and choosing which program makes the best business sense.

Reliability Management System

In FY 1999, we, along with 22 other Western Systems Coordinating Council members, signed WSCC's Reliability Management System agreement. The agreement signals support for a new contract-based reliability program. WSCC is the first reliability council in North America to begin a reliability program enforced by contracts and sanctions.

Facility Improvements

To ensure reliability and enhance our efficiency, in FY 1999 we carried out numerous facility improvement projects. We rehabilitated, enlarged or completed major repairs at six substations across Western. Remodeling was completed at the Rocky Mountain Region control center/dispatch center and the Sierra Nevada Region backup control center. Major power pole replacement projects were begun in the Upper Great Plains and Desert Southwest regions. In the RM Region, the entire transmission system, including substations, was scanned with infrared monitors to detect hot spots that might signify overloaded equipment or other maintenance concerns. We successfully replaced, re-routed or modified several transmission structures that cross Devil's Lake in North Dakota. Lake levels have been rising since 1993, endangering our transmission lines.

Small Business Award

In 1999, we were honored with the Department of Energy's FY 1998 Small Business Award for meeting or exceeding our goals in awarding contracts for products and services to small businesses, small business set-asides, small disadvantaged businesses and women-owned businesses.

100 IRP SUMMARY

Western undertook a number of actions in FY 1999 to support the Integrated Resource Planning requirements outlined in Section 114 of the Energy Policy Act of 1992. These include:

- Distributing the IRP annual reporting spreadsheets for individual and cooperatives/member-based associations to assist customers in compiling and submitting annual IRP progress reports.
- Providing IRP-related publications, information and technical assistance to customers through various media, including our Energy Services Bulletin, the Energy Services Web site (www.es.wapa.gov) and our Power Line technical assistance hotline (1-800-POWERLNL).
- Loaning technical equipment, including infrared cameras and demand analyzers, to customers to help them assess and increase efficiency levels.
- Providing direct and indirect technical assistance and information services through our regional energy services programs.
- Facilitating opportunities for customers to evaluate and implement renewable resources through our Non-Hydro Renewable Resources Program.
- Initiating a public process to revise our IRP approval criteria, as mandated by Section 114 of EPAct. We proposed revisions to the IRP regulations that include streamlined IRP criteria and new alternatives that account for wholesale and retail competition in the electric utility industry.

We received IRPs and small customer plans from all firm power customers and regularly receive annual progress reports and small customer annual update letters.

Through the end of FY 1999, we received 178 IRPs from individual customers and IRP cooperatives and 122 small customer plans. These IRPs and small customer plans represent 699 long-term firm power customers and customer members as shown here:

Region	Individual IRPs	IRP Cooperatives	Small Customer Plans
CRSP	10	10 representing 77 customers/members	4
DSW	33	7 representing 20 customers/members	16
RM	17	9 representing 136 customers/members	22
SN	4	6 representing 17 customers/members	39
UGP	71	11 representing 192 customers/members	41

The table on page 13 presents a breakout of customer demand-side management and renewable resource activities and expenditures as reported in FY 1999 IRP annual progress reports and small customer update letters. The table does not represent all customers and customer members because Western is not required to report small customer data (but does when it is available).

Highlights from customer annual reporting include:

- 1,274,000 kW saved across our service area through DSM measures.
- 3,098,042,400 kWh saved through DSM measures.
- \$73,669,100 expended on DSM measures.
- 3,275,350 kW capacity from renewable resources.
- 9,765,006,700 kWh generated from renewable resources.
- \$192,112,400 expended on renewable resources.*

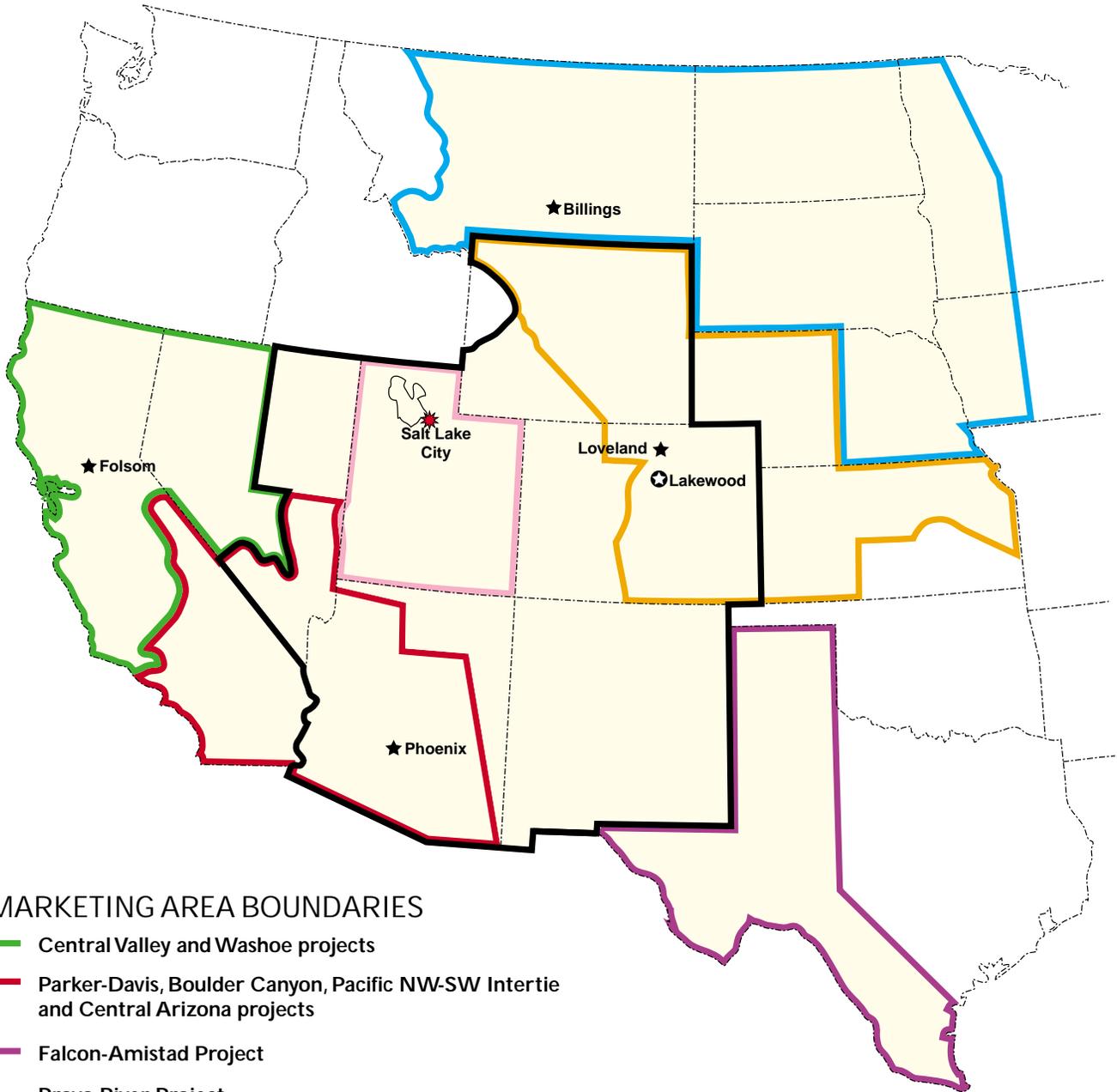
FY 99 customer IRP reporting results

Rounded to nearest hundred

	CRSP	DSW	RM	SN	UGP
DSM kW savings	20,000 kW	74,500 kW	207,400 kW	82,700 kW	889,400 kW
DSM kWh savings	46,822,800 kWh	113,175,200 kWh	2,002,207,400 kWh	92,434,200 kWh	843,402,800 kWh
DSM expenditures	\$2,043,700	\$6,125,100	\$3,725,500	\$30,624,100	\$31,180,700
DSM expenditure deviation	\$222,400 more than planned	\$103,900 more than planned	\$2,025,000 less than planned	\$6,280,300 less than planned	\$3,095,200 more than planned
DSM program trends	<ul style="list-style-type: none"> • Domestic hot water • Commercial/ industrial lighting • Residential heating • Industrial processes 	<ul style="list-style-type: none"> • Commercial/ Industrial lighting • Residential building envelopes • Commercial/ industrial building envelopes • Residential cooling/ventilation • Commercial/ industrial appliance rebate programs • Transmission & distribution 	<ul style="list-style-type: none"> • Domestic hot water • Residential heating • Agricultural/ irrigation pumps • Transmission & distribution • Commercial/ industrial lighting • Residential building envelopes 	<ul style="list-style-type: none"> • Residential cooling/ventilation • Commercial/ industrial cooling/ventilation • Commercial/ industrial lighting • Commercial/ industrial motors • Residential lighting 	<ul style="list-style-type: none"> • Agricultural/ irrigation pumps • Domestic hot water • Residential cooling/ventilation • Residential heating • Transmission & distribution • Commercial/ industrial lighting
Renewables kW	71,700 kW	1,590,600 kW	165,400 kW	1,204,600 kW	243,100 kW
Renewables kWh	301,366,100 kWh	2,597,160,400 kWh	35,862,700 kWh	5,658,120,500 kWh	1,172,497,000 kWh
Renewables expenditures	\$10,564,300	\$12,132,100	\$1,897,000*	\$163,317,800	\$4,201,200*
Renewables expenditure deviation	\$772,700 less than planned	\$172,900 less than planned	\$1,892,700 more than planned	Not Available	\$1,223,700 more than planned
Renewables program trends	<ul style="list-style-type: none"> • Large-scale hydro • Geothermal energy • Small-scale hydro • Wind energy • Solar photovoltaics 	<ul style="list-style-type: none"> • Large-scale hydro • Geothermal energy • Small-scale hydro • Municipal solid waste-to-energy • Solar photovoltaics 	<ul style="list-style-type: none"> • Large-scale hydro • Small-scale hydro • Wind energy • Solar photovoltaics 	<ul style="list-style-type: none"> • Large-scale hydro • Geothermal energy • Small-scale hydro • Solar photovoltaics • Wind energy 	<ul style="list-style-type: none"> • Large-scale hydro • Municipal solid waste-to-energy • Small-scale hydro • Wind energy

* Full renewables expenditures not reported.

PROJECT MARKETING AREAS



MARKETING AREA BOUNDARIES

- Central Valley and Washoe projects
- Parker-Davis, Boulder Canyon, Pacific NW-SW Intertie and Central Arizona projects
- Falcon-Amistad Project
- Provo River Project
- Loveland Area Projects
(Pick-Sloan Missouri Basin—Western Division and Fryingpan-Arkansas Project)
- Pick-Sloan Missouri Basin Program—Eastern Division
- Salt Lake City Area/Integrated Projects
(Colorado River Storage Project, Collbran, Rio Grande, Seedskadee and Dolores projects)

----	State Boundaries
★	Regional Office
⊗	Corporate Services Office
★*	CRSP Management Center

1 SYSTEM PROFILE

As of September 30, 1999

	Boulder Canyon	Central Arizona (Navajo)	Central Valley Project	Falcon- Amistad	Loveland Area Projects	Pacific NW-SW Intertie	Parker- Davis	Pick-Sloan Missouri Basin — Eastern Division	Provo River	Salt Lake City Area Integrated Projects	Washoe	Other	Total Western
Transmission lines													
Circuit miles	57	0	852	0	3,481	761	1,533	7,745	0	2,388	0	0	16,819
Circuit kilometers	92	0	1,371	0	5,602	1,225	2,466	12,462	0	3,843	0	0	27,061
Land													
Acres	1,171	0	12,545	0	35,110	26,859	19,764	93,338	0	36,182	0	160	225,130
Hectares	474	0	5,079	0	14,215	10,874	8,002	37,789	0	14,649	0	65	91,146
Number of substations	3	1	15	0	78	3	33	98	0	25	0	0	256
Number of powerplants	1	1	10	2	19.5	0	2	7.5	1	11	1	0	56
Total energy sales - MWh													
Total energy sales - MWh	5,182,064	4,072,000	9,703,215	87,958	2,198,245	0	1,766,042	13,325,478	16,951	8,690,941	15,191	0	45,058,085
Firm sales - MWh	5,182,064	4,072,000	8,060,701	0	2,160,319	0	1,249,727	8,768,122	0	7,535,897	0	0	37,028,830
Nonfirm sales - MWh	0	0	354,192	87,958	28,784	0	197,853	4,392,056	16,951	909,481	15,191	0	6,002,466
Project use sales - MWh	0	0	1,288,322	0	9,142	0	195,267	31,005	0	60,493	0	0	1,584,229
Interproject transfers - MWh	0	0	0	0	0	0	123,195	134,295	0	185,070	0	0	442,560
Total power revenues - \$													
Total power revenues - \$	48,867,047	74,879,056	158,772,795	3,291,652	46,116,412	0	10,650,204	235,306,023	208,261	143,388,661	271,773	0	721,751,884
Firm power revenues - \$	48,842,125	74,879,056	140,868,001	0	45,665,655	0	3,082,127	136,037,247	0	122,120,192	0	0	571,494,403
Nonfirm power revenues - \$	24,922	0	9,204,794	3,291,652	427,290	0	4,340,999	96,587,464	208,261	14,959,244	271,773	0	129,316,399
Project use revenues - \$	0	0	8,700,000	0	23,467	0	502,572	112,948	0	1,157,784	0	0	10,496,771
Interproject transfers - \$	0	0	0	0	0	0	2,724,506	2,568,364	0	5,151,441	0	0	10,444,311
Number of customers ¹	15	1	114	2	48	0	46	343	2	139	1	0	643

¹ The sum of the projects' number of customers does not equal the total because some customers buy power from more than one project.

FACILITIES

Buildings and Communications Sites

Project	Number of buildings	Number of communications sites	Fee area		Withdrawal area ¹		Easement area	
			Acres	Hectares	Acres	Hectares	Acres	Hectares
Central Arizona (Navajo)	1	0	0	0	0	0	0	0
Central Valley	27	16	0	0	0	0	2	1
Loveland Area Projects	190	80	59	24	0	0	53	21
Pacific NW-SW Intertie	9	0	0	0	0	0	0	0
Parker-Davis	66	53	0	0	0	0	291	118
Pick-Sloan Missouri Basin— Eastern Division	230	145	228	92	2	1	338	137
Salt Lake City Area/Integrated Projects	77	65	2	1	0	0	114	46
Western total	600	359	289	117	2	1	799	323

¹ Areas set aside by the Bureau of Land Management for Western transmission and substation use.

Substations

Project	Number of substations	Number of buildings	Transformers		Fee area		Withdrawal area ¹		Easement area	
			Number	Capacity (kVa)	Acres	Hectares	Acres	Hectares	Acres	Hectares
Boulder Canyon	3	0	9	1,798,999	0	0	0	0	3	1
Central Arizona (Navajo)	1	0	5	228,000	0	0	0	0	0	0
Central Valley	15	21	16	2,162,216	330	134	0	0	1	0
Loveland Area Projects	78	1	73	2,244,708	559	226	0	0	184	74
Pacific NW-SW Intertie	3	12	5	5,131,167	4,529	1,833	4,243	1,717	117	47
Parker-Davis	33	37	39	1,905,874	423	171	115	47	65	26
Pick-Sloan Missouri Basin— Eastern Division	98	225	125	8,045,989	1,602	648	21	8	74	30
Salt Lake City Area/Integrated Projects	25	33	38	4,927,895	680	275	129	52	513	208
Western total	256	329	310	26,444,848	8,123	3,287	4,507	1,824	957	387

¹ Areas set aside by the Bureau of Land Management for Western transmission and substation use.



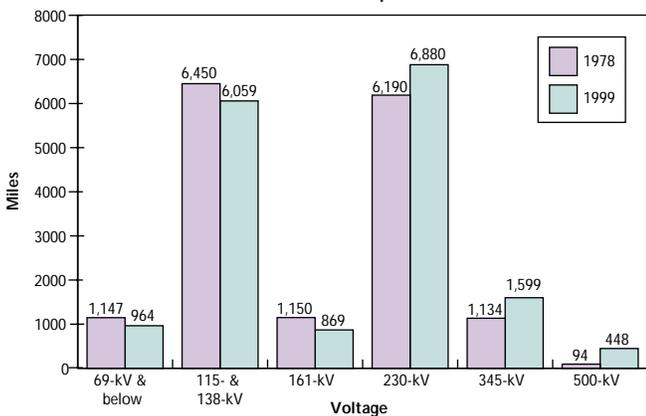
TRANSMISSION LINE SUMMARY

(In circuit miles)

State	500-kV		345-kV		230-kV		161-kV	
	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers
Arizona	0	0	703.97	1,132.69	805.70	1,296.37	143.01	230.10
California	448.27	721.27	0	0	838.13	1,348.55	232.79	374.56
Colorado	0	0	375.58	604.31	856.60	1,378.27	0	0
Iowa	0	0	20.33	32.71	164.52	264.71	192.23	309.30
Minnesota	0	0	0	0	247.33	397.95	0	0
Missouri	0	0	0	0	0	0	17.95	28.88
Montana	0	0	0	0	559.95	900.96	283.28	455.80
Nebraska	0	0	136.99	220.42	106.06	170.65	0	0
Nevada	0	0	11.40	18.34	147.39	237.15	0	0
New Mexico	0	0	31.86	51.26	67.39	108.43	0	0
North Dakota	0	0	40.74	65.55	983.30	1,582.13	0	0
South Dakota	0	0	260.33	418.87	1,766.12	2,841.69	0	0
Utah	0	0	17.60	28.32	0	0	0	0
Wyoming	0	0	0	0	337.20	542.55	0	0
Total	448.27	721.27	1,598.80	2,572.47	6,879.69	11,069.42	869.26	1,398.64

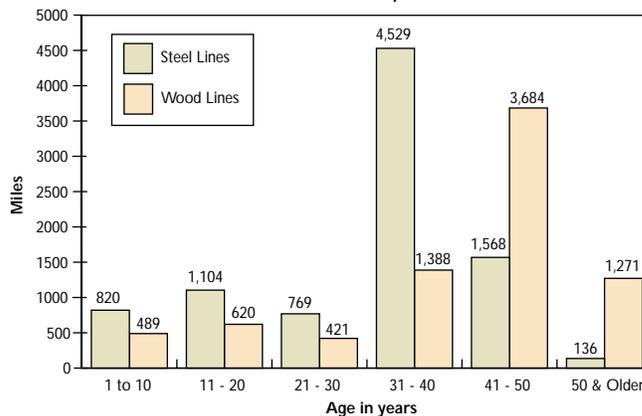
State	138-kV		115-kV		69-kV & below		Total Western	
	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers
Arizona	0	0	338.80	545.13	114.37	184.02	2,105.85	3,388.31
California	0	0	7.37	11.86	47.85	76.99	1,574.41	2,533.23
Colorado	210.62	338.89	760.55	1,223.72	95.48	153.63	2,298.83	3,698.82
Iowa	0	0	0	0	0	0	377.08	606.72
Minnesota	0	0	14.99	24.12	0	0	262.32	422.07
Missouri	0	0	0	0	0	0	17.95	28.88
Montana	0	0	529.31	851.66	71.36	114.82	1,443.90	2,323.24
Nebraska	0	0	479.48	771.48	75.26	121.09	797.79	1,283.64
Nevada	0	0	0	0	3.40	5.47	162.19	260.96
New Mexico	0	0	0	0	2.70	4.34	101.95	164.04
North Dakota	0	0	886.27	1,426.01	148.36	238.71	2,058.67	3,312.40
South Dakota	0	0	1,343.15	2,161.13	7.06	11.36	3,376.66	5,433.05
Utah	116.80	187.93	0	0	0.32	0.51	134.72	216.76
Wyoming	0	0	1,371.71	2,207.08	397.55	639.66	2,106.46	3,389.29
Total	327.42	526.82	5,731.63	9,222.19	963.71	1,550.61	16,818.78	27,061.42

Transmission Lines in Service as of Oct. 1, 1999



Total miles of lines
 1978 - 16,165 miles
 1999 - 16,819 miles

Transmission Line Age as of Oct. 1, 1999



Service life:
 40 years for wood pole lines, 100 years for structures and 50 years for conductor insulator assemblies on steel lines.
 This graph includes only wood and steel line structures.

100 INTERCONNECTIONS

Western has a total of 189 control area interconnections with 21 entities. This includes four ties between our four control areas, including two direct current links. We also have a DC link with the Nebraska Public Power District.

Control Area	Regional Office	Number of Control Area Interconnections
WAUM (East-MAPP)	Upper Great Plains	83
WAUM (West-WSCC)	Upper Great Plains	9
WALC (WSCC)	Desert Southwest	45
WACM (WSCC)	Rocky Mountain and CRSP Management Center	52
Total		189

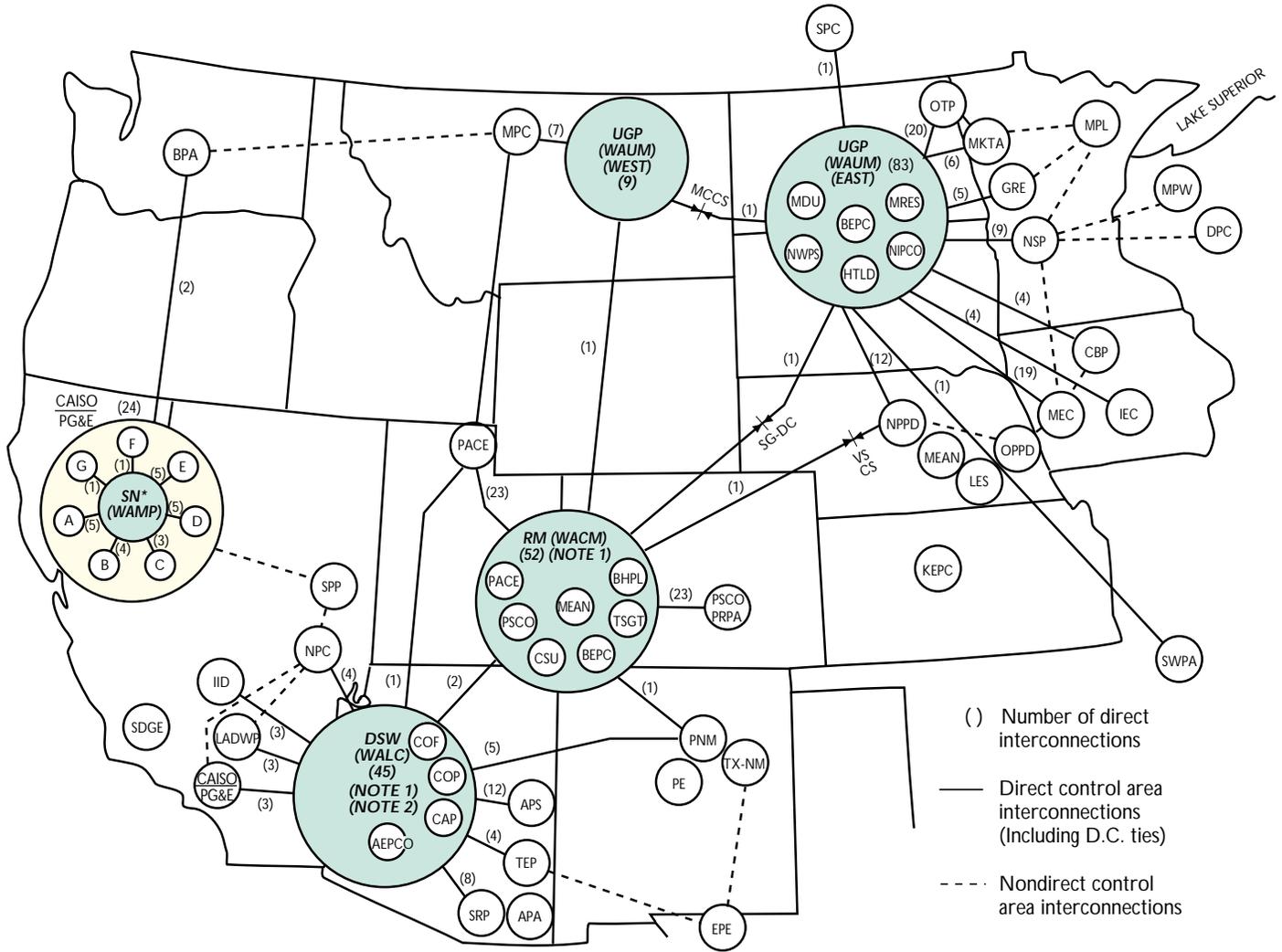
The Upper Great Plains Region operates two control areas—one in the eastern interconnection and one in the western interconnection. The Desert Southwest Region operates a control area in the western interconnection. The Colorado River Storage Project Management Center and the Rocky Mountain Region operate a combined control area in the western interconnection.

The Sierra Nevada Region operates inside the California Independent System Operator’s control area. Sierra Nevada has 53 interconnections with 11 entities. Although not a control area, Sierra Nevada control center coordinates energy scheduling for most directly connected customers.

We regularly schedule energy with approximately 25 load-serving entities with which we do not have a direct interconnection. Transactions are scheduled irregularly with approximately 75 other load-serving entities with which we do not have direct interconnections. Additional schedules also occur with power marketers and brokers.

We maintain more than 1,700 active contract agreements with utilities in 18 states, which include our more than 600 power customers. We maintain 1,598 load-serving interconnections with 382 customers inside the load control boundaries.

Region	Load-Serving Interconnections
Upper Great Plains	1,040
Rocky Mountain	255
Desert Southwest	241
Sierra Nevada	24
CRSP Management Center	38
Total	1,598



() Number of direct interconnections
 — Direct control area interconnections (Including D.C. ties)
 - - - Nondirect control area interconnections

* SN does not operate a control area; it operates within the California ISO control area.

Company

- A** Sacramento Municipal Utility District
- B** Redding Electric Department
- C** City of Shasta Lake
- D** Roseville Electric Department
- E** Contra Costa Water District
- F** DOE-Lawrence Livermore Nat'l Lab
- G** Turlock Irrigation District
- AEPSCO** Arizona Electric Power Cooperative
- APA** Arizona Power Authority
- APS** Arizona Public Service Company
- BEPC** Basin Electric Power Cooperative
- BHPL** Black Hills Power and Light
- BPA** Bonneville Power Administration
- CAISO** California Independent System Operator
- CAP** Central Arizona Project
- CBP** Cornbelt Power Cooperative
- COF** City of Farmington
- COP** City of Page
- CSU** Colorado Springs Utilities
- DGT** Deseret Generation and Transmission

- DPC** Dairyland Power Cooperative
- EPE** El Paso Electric Company
- GRE** Great River Energy Services
- HTLD** Heartland Consumers Power District
- IEC** Interstate Energy Corporation (Alliant Energy)
- IID** Imperial Irrigation District
- KEPC** Kansas Electric Power Cooperative
- LADWP** Los Angeles Department of Water and Power
- LES** Lincoln Electric Service
- MRES** Missouri River Energy Services
- MDU** Montana-Dakota Utilities
- MEAN** Municipal Energy Agency of Nebraska
- MKTA** Minnkota Power Cooperative
- MPC** Montana Power Company
- MPL** Minnesota Power and Light
- MPW** Muscastine Power and Water
- MEC** MidAmerica Energy Company
- NIPCO** Northwest Iowa Power Cooperative
- NPC** Nevada Power Company
- NPPD** Nebraska Public Power District
- NSP** Northern States Power Co.

- NWPS** Northwestern Public Service Co.
- OPPD** Omaha Public Power District
- OTP** Otter Tail Power Company
- PACE** PacifiCorp East
- PE** Plains Electric (New Mexico)
- PG&E** Pacific Gas and Electric Co.
- PNM** Public Service Company of New Mexico
- PRPA** Platte River Power Authority
- PSCO** Public Service Company of Colorado
- SCE** Southern California Edison
- SDGE** San Diego Gas and Electric Co.
- SPC** Saskatchewan Power Corporation
- SPP** Sierra Pacific Power Company
- SRP** Salt River Project
- SWPA** Southwestern Power Administration
- TEP** Tucson Electric Power Company
- TSGT** Tri-State Generation and Transmission Assn.
- TX-NM** Texas-New Mexico Power Company

NOTE 1. RM (WACM) and DSW (WALC) changed control area boundaries on April 1, 1998.

NOTE 2. DSW (WALC) also has 12 pseudo ties with CRSP generators in the RM (WACM) control area.

DC Tie Information

- MCCS** Miles City Converter Station
- VSCS** Virginia Smith Converter Station
- SG-DC** Stegall DC tie (David Hamil Converter Station)

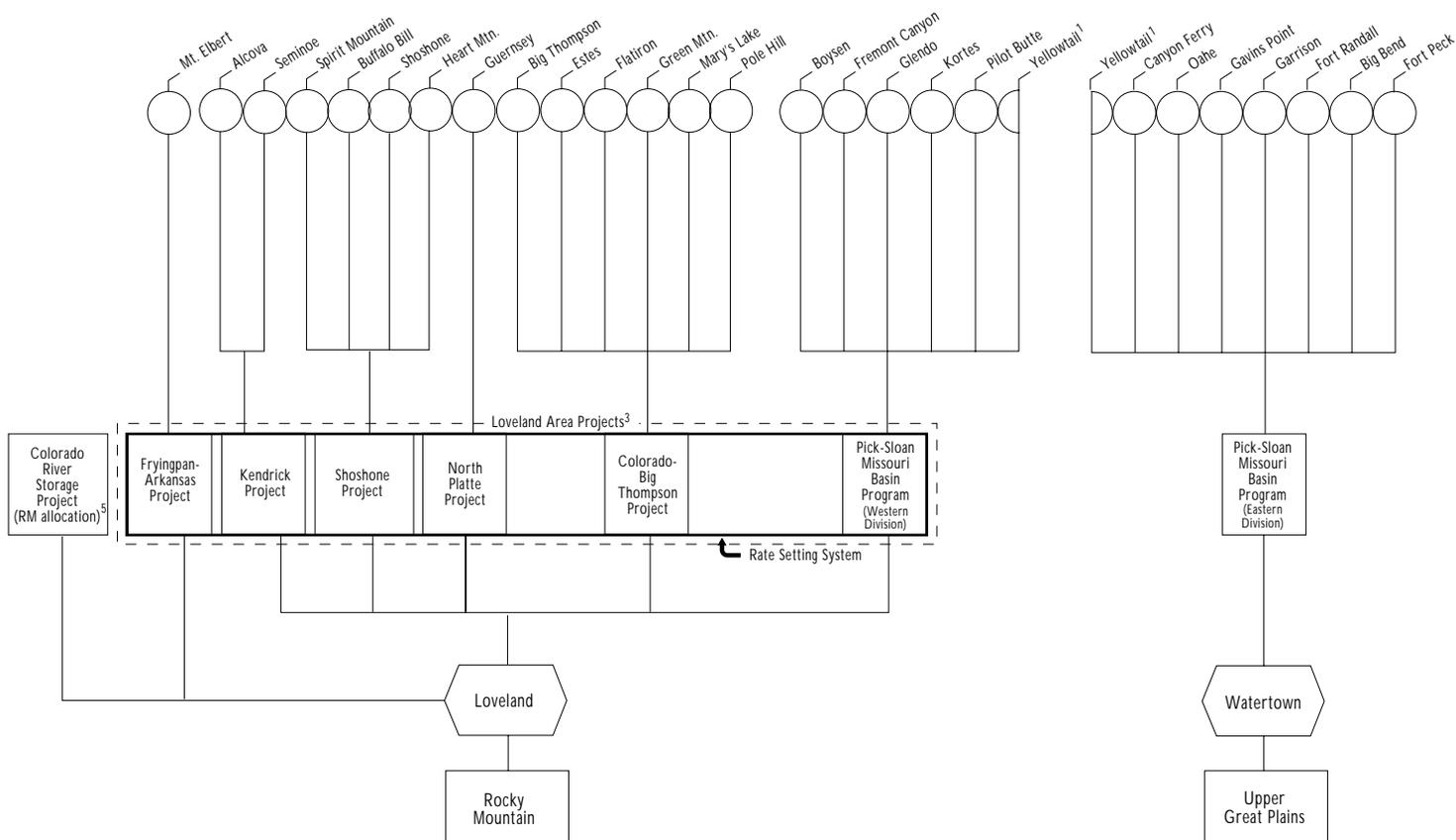
Capacity

East to West	West to East
200 MW	150 MW
200 MW	200 MW
100 MW	100 MW

- SN (WAMP)** Sierra Nevada Region (Western Area Mid Pacific)
- DSW (WALC)** Desert Southwest Region (Western Area Lower Colorado)
- CRSP & RM (WACM)** CRSP & Rocky Mountain Region (Western Area Colorado Missouri)
- UGP (WAUM) (West)** Upper Great Plains Region (Western Area Upper Missouri) (West)
- UGP (WAUM) (East)** Upper Great Plains Region (Western Area Upper Missouri) (East)



POWER MARKETING SYSTEM



¹ Generation from units 1 and 2 is marketed by the Rocky Mountain Region; from units 3 and 4 by the Upper Great Plains Region. Yellowtail is controlled by Rocky Mountain.

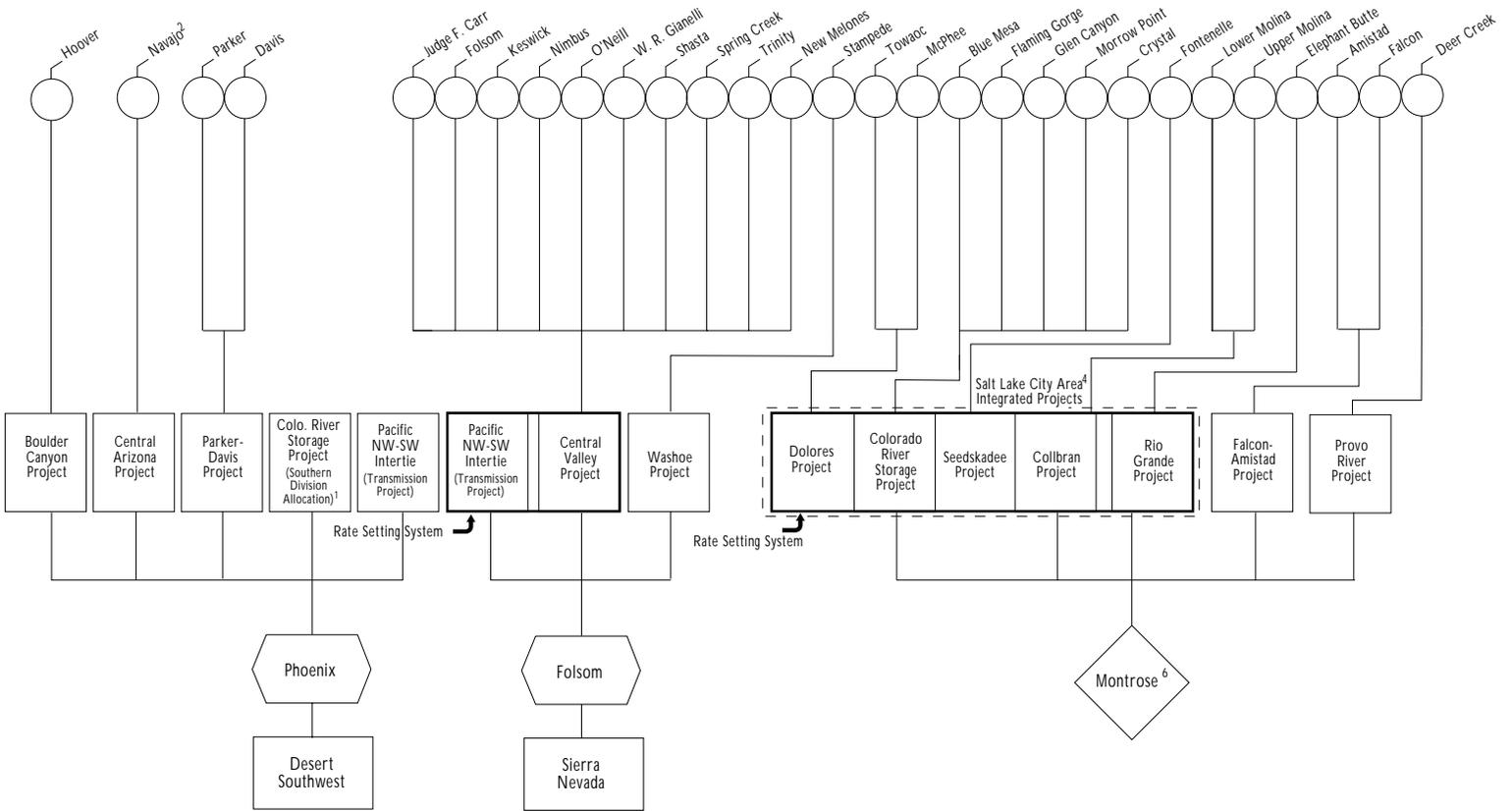
² Coal-fired generation.

³ These resources are integrated for marketing, operation and repayment purposes.

⁴ These resources are integrated for marketing and operation purposes.

⁵ Power marketed from Colorado River Storage Project resources.

⁶ Billing for Salt Lake City Area/Integrated Projects carried out by DSW and RM.



- Power Resources
- Project or Power System
- ⬡ Dispatch Center
- ▭ Billing/Marketing Office
- ◇ CRSP Marketing Office

EXISTING POWERPLANTS

As of September 30, 1999

Project/state/ plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability ¹ FY 1999 (MW)	Actual operating capability (MW)		Net generation GWh ²	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Boulder Canyon									
Arizona-Nevada									
Hoover	Reclamation	Colorado	Sep 36	19	2,074 ³	2,074	1,914	5,507	5,845
Boulder Canyon total				19	2,074	2,074	1,914	5,507	5,845
Central Arizona									
Arizona									
Navajo	SRP	n/a ⁴	May 74	3	547 ⁵	547	547	4,072	3,504
Central Arizona total				3	547	547	547	4,072	3,504
Central Valley									
California									
J.F. Carr	Reclamation	Clear Creek Tunnel	May 63	2	154	140	85	563	451
Folsom	Reclamation	American	May 55	3	215	165	127	727	906
Keswick	Reclamation	Sacramento	Oct 49	3	105	33	85	518	522
New Melones	Reclamation	Stanislaus	Jun 79	2	383	370	365	729	684
Nimbus	Reclamation	American	May 55	2	14	11	12	114	88
O'Neill ⁶	Reclamation	San Luis Creek	Nov 67	6	29	0	0	5	5
Shasta	Reclamation	Sacramento	Jun 44	7	588	588	505	2,466	2,618
Spring Creek	Reclamation	Spring Creek Tunnel	Jan 64	2	200	180	166	598	763
Trinity	Reclamation	Trinity	Feb 64	3	140 ⁷	130	130	574	664
W.R. Gianelli ⁸	CDWR	San Luis Creek	Mar 68	8	202 ⁹	170	150	199	106
Central Valley total				38	2,031	1,787	1,625	6,492	6,805
Falcon-Amistad									
Texas									
Amistad	IBWC	Rio Grande	Jun 83	2	66 ¹⁰	66	46	56	103
Falcon	IBWC	Rio Grande	Oct 54	3	32 ¹⁰	32	18	31	34
Falcon-Amistad total				5	98	98	64	88	137
Loveland Area Projects									
Colorado									
Big Thompson	Reclamation	Trans-mtn. Div.	Apr 59	1	5	5	5	9	7
Estes	Reclamation	Trans-mtn. Div.	Sep 50	3	51	15	34	72	89
Flatiron ⁶	Reclamation	Trans-mtn. Div.	Jan 54	3 ¹¹	95	71	86	189	195
Green Mountain	Reclamation	Blue	May 43	2	30	28	0	69	48
Marys Lake	Reclamation	Trans-mtn. Div.	May 51	1	8	3	8	26	33
Mount Elbert ⁶	Reclamation	Arkansas	Oct 81	2	206	196	206	267	228
Pole Hill	Reclamation	Trans-mtn. Div.	Jan 54	1	33	33	34	147	153
Montana									
Yellowtail ¹²	Reclamation	Big Horn	Aug 66	2	144	132	108	654	516
Wyoming									
Alcova	Reclamation	North Platte	Jul 55	2	40	38	36	123	151
Boysen	Reclamation	Wind	Aug 52	2	18	16	17	101	95
Buffalo Bill	Reclamation	Shoshone	May 95	3	18	18	18	108	83
Fremont Canyon	Reclamation	North Platte	Dec 60	2	66	66	66	274	332
Glendo	Reclamation	North Platte	Dec 58	2	38	38	36	130	111
Guernsey	Reclamation	North Platte	Jul 99	2	7	7	7	24	27
Heart Mountain	Reclamation	Shoshone	Dec 48	1	5	5	6	21	17
Kortes	Reclamation	North Platte	Jun 50	3	39	39	39	158	168
Pilot Butte	Reclamation	Wind	Jan 99	2	2	2	2	4	4
Seminole	Reclamation	North Platte	Aug 39	3	51	53	48	179	176
Shoshone	Reclamation	Shoshone	May 95	1	3	3	3	24	23
Spirit Mountain	Reclamation	Shoshone	May 95	1	5	5	5	16	17
Loveland Area Projects total				39	864	773	764	2,596	2,471
Parker-Davis									
Arizona									
Davis	Reclamation	Colorado	Jan 51	5	232	232	269	1,395	1,241
California									
Parker	Reclamation	Colorado	Dec 42	4	54 ¹¹	54	69	291	521
Parker-Davis total				9	286	286	338	1,686	1,762

Continued on next page.

Project/state/ plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability ¹ FY 1999 (MW)	Actual operating capability (MW)		Net generation (GWh) ²	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Pick-Sloan—Eastern Division									
Montana									
Canyon Ferry	Reclamation	Missouri	Dec 53	3	60	60	60	421	469
Fort Peck	Corps	Missouri	Jul 43	5	218	211	211	1,079	1,242
Yellowtail ³	Reclamation	Big Horn	Aug 66	2	144	108	108	654	551
North Dakota									
Garrison	Corps	Missouri	Jan 56	5	546	484	484	2,607	2,644
South Dakota									
Big Bend	Corps	Missouri	Oct 64	8	538	467	467	1,090	1,227
Fort Randall	Corps	Missouri	Mar 54	8	387	370	370	2,199	1,997
Gavins Point	Corps	Missouri	Sep 56	3	122	111	111	860	831
Oahe	Corps	Missouri	Apr 62	7	786	728	728	3,125	3,379
Pick-Sloan Eastern Division total				41	2,801	2,539	2,539	12,035	12,340
Provo River									
Utah									
Deer Creek	PRWUA	Provo	Feb 58	2	5	5	5	17	32
Provo River total				2	5	5	5	17	32
Salt Lake City Area/Integrated Projects									
Arizona									
Glen Canyon	Reclamation	Colorado	Sep 64	8	1,356	1,288	1,288	5,548	6,626
Colorado									
Blue Mesa	Reclamation	Gunnison	Sep 67	2	96	86	86	269	296
Crystal	Reclamation	Gunnison	Sep 78	1	28	28	28	164	210
Lower Molina	Reclamation	Pipeline	Dec 62	1	5	5	5	18	24
McPhee	Reclamation	Dolores	Jun 93	1	1	1	1	4	1
Morrow Point	Reclamation	Gunnison	Dec 70	2	156	156	156	324	366
Towaoc	Reclamation	Canal	Jun 93	1	11	11	11	18	15
Upper Molina	Reclamation	Pipeline	Dec 62	1	9	9	9	30	40
New Mexico									
Elephant Butte	Reclamation	Rio Grande	Nov 40	3	28	28	28	102	116
Utah									
Flaming Gorge	Reclamation	Green	Nov 63	3	152	152	152	781	767
Wyoming									
Fontenelle	Reclamation	Green	May 68	1	13	10	10	76	79
Salt Lake City Area/Integrated Projects total				24	1,855	1,775	1,775	7,336	8,540
Washoe									
California									
Stampede	Reclamation	Little Truckee	Dec 86	1	3	3	3	15	11
Washoe total				1	3	3	3	15	11
Grand total				181	10,564	9,886	9,574	39,844	41,447

¹ Maximum operating capability is the maximum generating capability of the units at unity power factor without exceeding the specified heat rise on each unit and independent of water constraints.

² Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

³ Excludes 4.8 MW reserved for plant use.

⁴ Coal-fired generation.

⁵ United States' share (24.3 percent) of 2,250 MW plant capability.

⁶ Pump/generating plant.

⁷ Includes 0.35 MW at Lewiston Powerplant.

⁸ Formerly San Luis Pump/Generating Plant.

⁹ United States' share of 424 MW capability.

¹⁰ Only unit 3 has pump/generation capability.

¹¹ United States' share (50 percent) of plant capability.

¹² Generation from units 1 and 2 is marketed by the Rocky Mountain Region; from units 3 and 4 by the Upper Great Plains Region. For this table, one-half of the total capability and output is shown under each of these two regions.

Operating agencies:

CDWR - California Department of Water Resources

Corps - U.S. Army Corps of Engineers

IBWC - International Boundary and Water Commission, U.S. Dept. of State

PRWUA - Provo River Water Users Association

Reclamation - Bureau of Reclamation, U.S. Dept. of the Interior

SRP - Salt River Project

RESOURCES

Energy Resource and Disposition

	(GWh)			(GWh)	
	FY 1999	FY 1998		FY 1999	FY 1998
Energy resource			Energy disposition		
Net generation ¹	39,641	41,335	Sales of electric energy		
Interchange			Western	42,654	43,249
Received	782	893	Project use (Reclamation)	1,583	1,702
Delivered	420	1,083	Total sales of electric energy	44,237	44,951
Net	362	(190)	Other		
Purchases			Interarea/interproject/ interdepartment	443	57
Non-Western	6,567	5,919	Other deliveries	377	344
Western	331	43	Total other	820	401
Total purchases	6,898	5,962	Total energy delivered	45,057	45,352
Total energy resources	46,901	47,107	System and contractual losses	1,844	1,755
			Total energy disposition	46,901	47,107

¹ Reduced by Gianelli and O'Neill generation (204 GWh), which is offset against project use sales.

Capability and Net Generation

Project	Number of units	Maximum operating capability (MW)	Actual operating capability (MW)		Net generation (GWh)	
			July 1, 1999	July 1, 1998	FY 1999	FY 1998
Boulder Canyon	19	2,074	2,074	1,914	5,507	5,845
Central Arizona Project	3	547	547	547	4,072	3,504
Central Valley	38	2,031	1,787	1,625	6,492	6,805
Falcon-Amistad	5	98	98	64	88	137
Loveland Area Projects	39	864	773	764	2,596	2,471
Parker-Davis	9	286	286	338	1,686	1,762
Pick-Sloan Missouri Basin Program—Eastern Division	41	2,801	2,539	2,539	12,035	12,340
Provo River	2	5	5	5	17	32
Salt Lake City Area/ Integrated Projects	24	1,855	1,775	1,775	7,336	8,540
Washoe	1	3	3	3	15	11
Totals	181	10,564	9,886	9,574	39,844	41,447

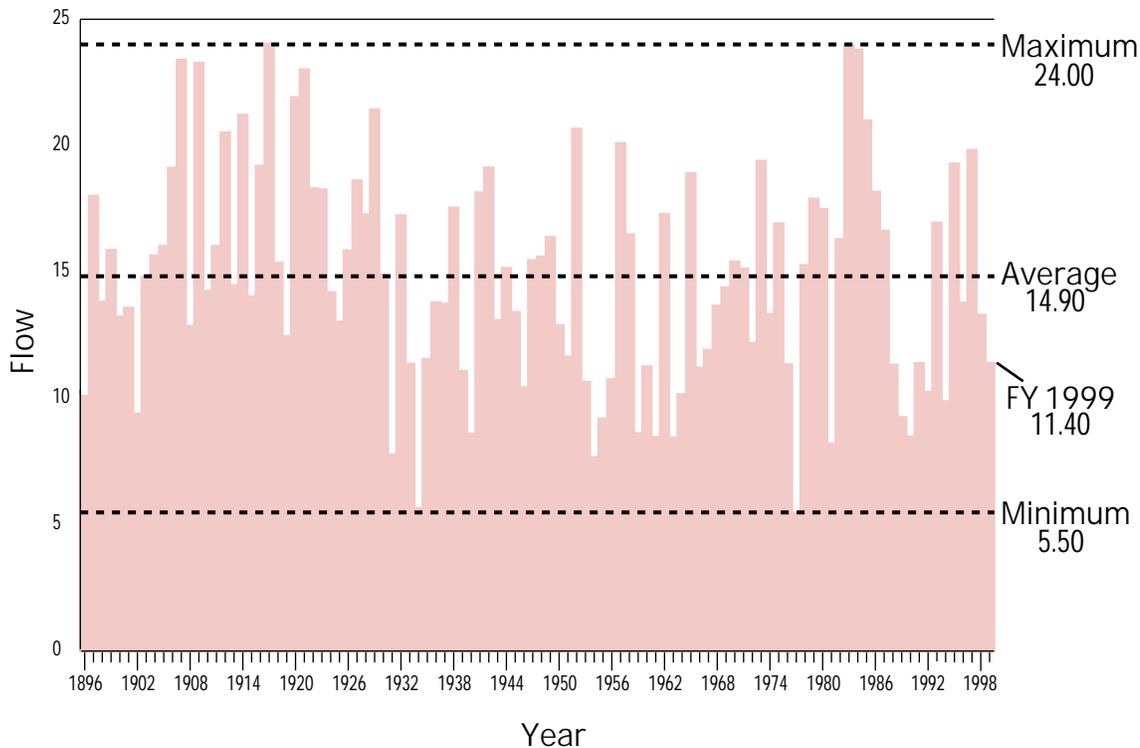
Capability and Net Generation by State

State	Number of units	Maximum operating capability (MW)	Actual operating capability (MW)		Net generation (GWh)	
			July 1, 1999	July 1, 1998	FY 1999	FY 1998
Arizona*	26	3,172	3,104	3,061	13,768	14,294
California	43	2,088	1,844	1,697	6,799	7,339
Colorado	22	734	648	670	1,608	1,704
Montana	12	566	511	487	2,808	2,778
North Dakota	5	546	484	484	2,607	2,644
Nevada	10	1,037	1,037	957	2,754	2,923
New Mexico	3	28	28	28	102	116
South Dakota	26	1,833	1,676	1,676	7,274	7,434
Texas	5	98	98	64	88	137
Utah	5	157	157	157	798	799
Wyoming	25	305	300	293	1,239	1,282
Totals	181	10,564	9,886	9,574	39,844	41,447

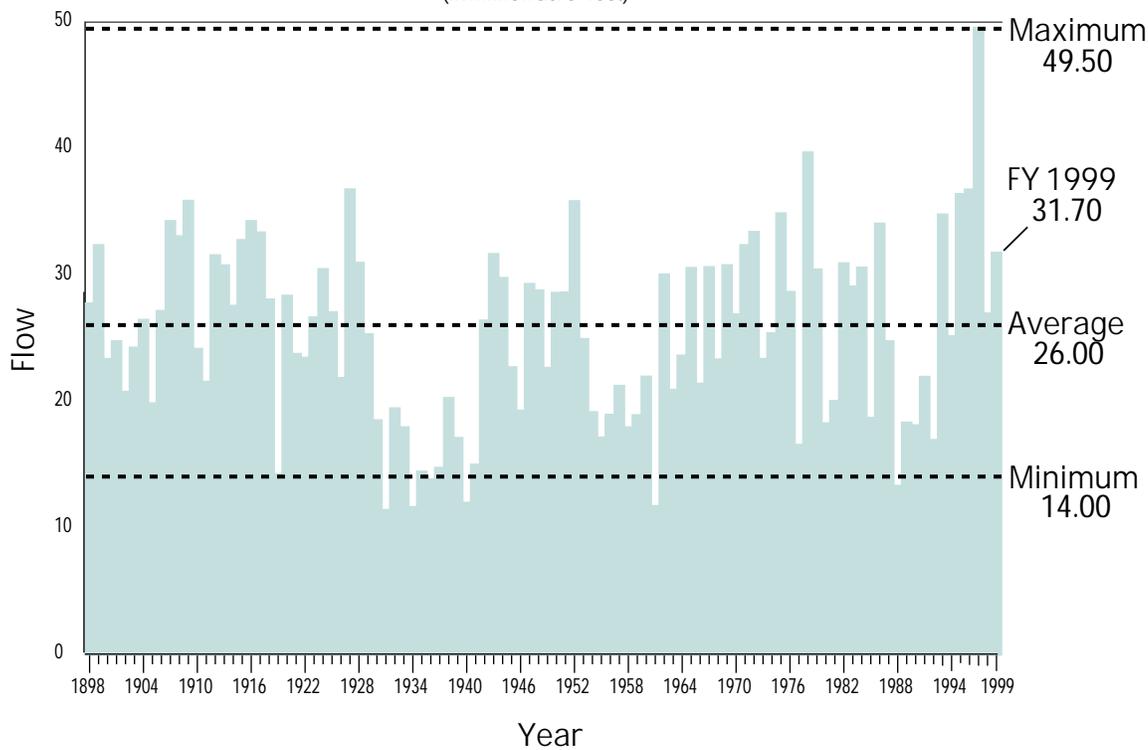
*Note: Includes Navajo Generating Station.

HISTORICAL FLOWS

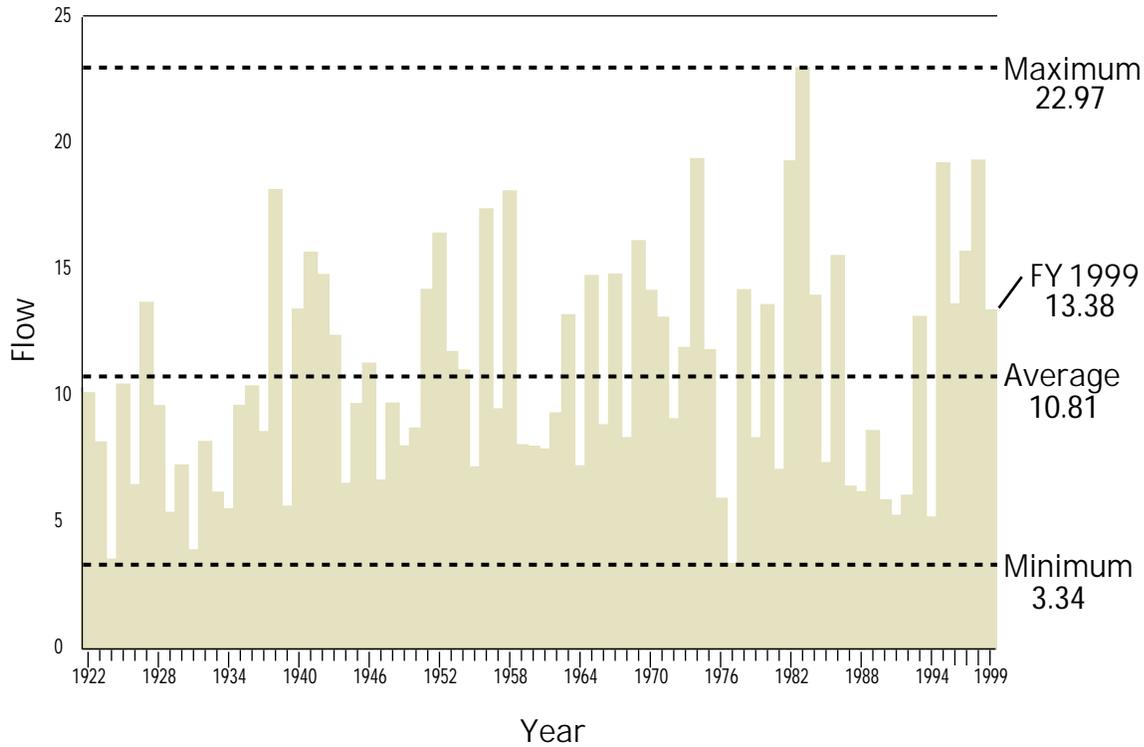
Colorado River flow at Lees Ferry, Arizona (in million acre-feet)



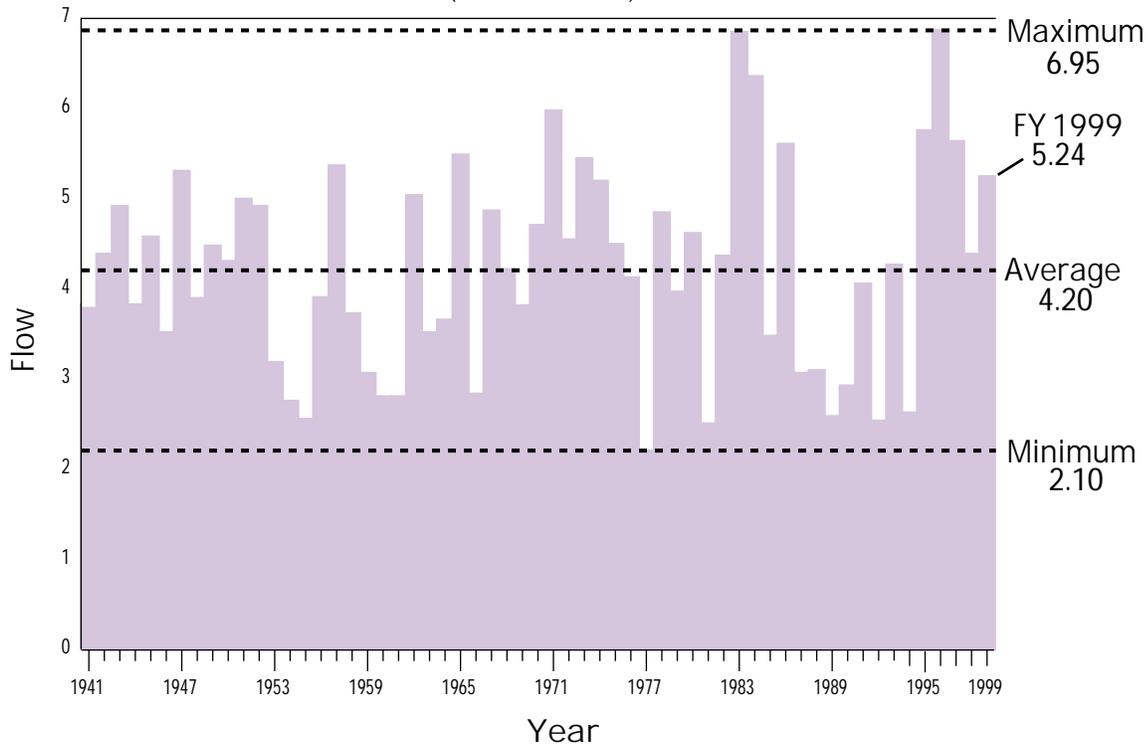
Missouri River flow at Sioux City, Iowa (in million acre-feet)



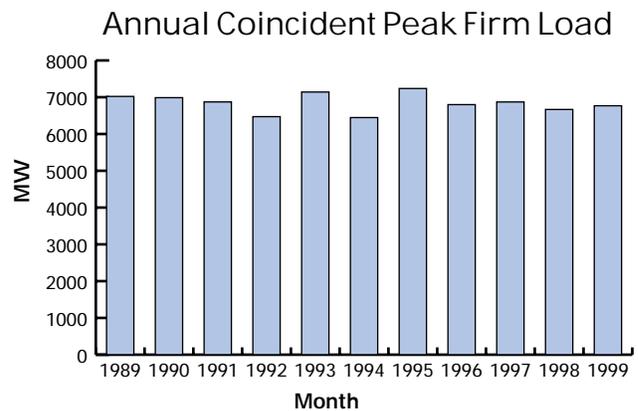
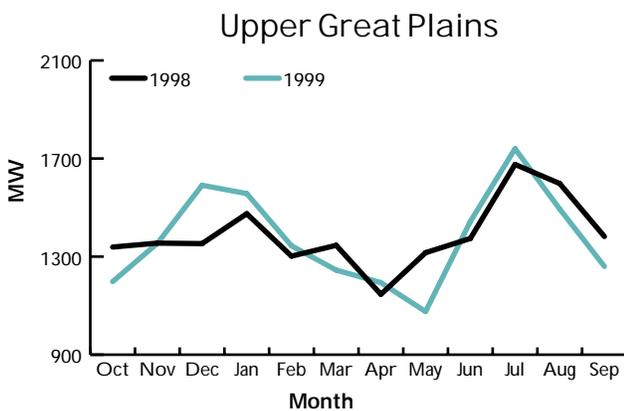
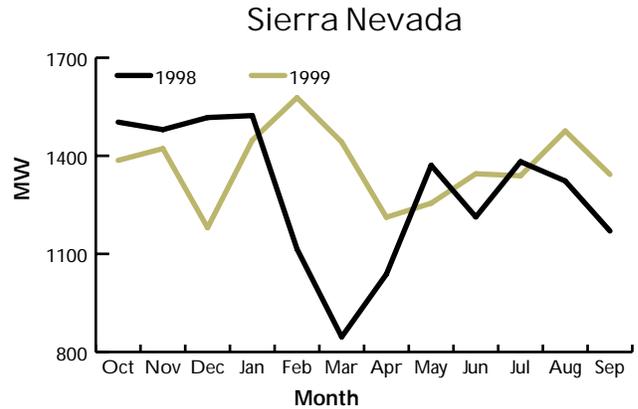
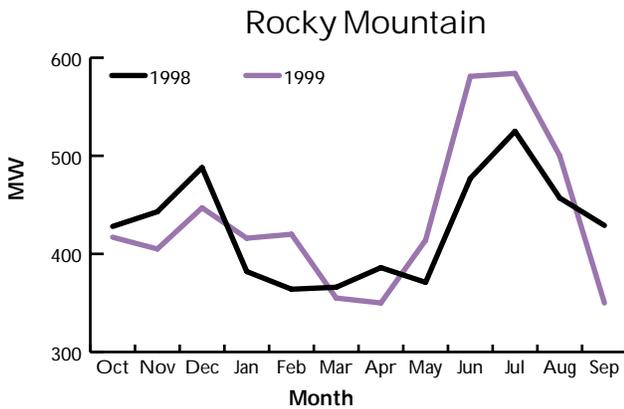
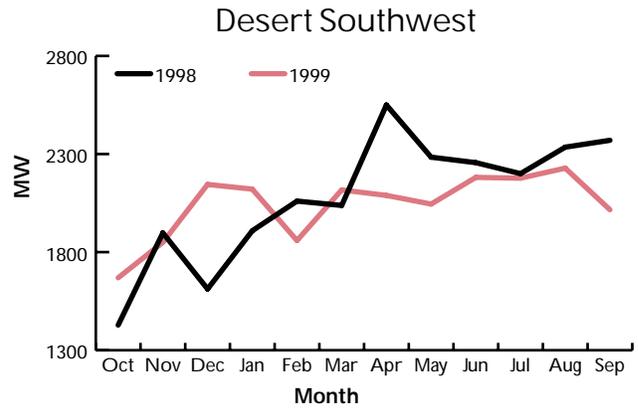
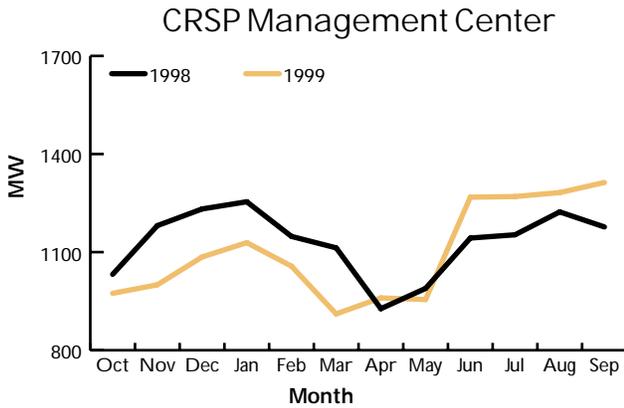
Sacramento and San Joaquin rivers Annual flow to Clair Engle, Shasta, Folsom and New Melones reservoirs (in million acre-feet)



Big Thompson, North Platte and Bighorn rivers (in million acre-feet)



1999 PEAK FIRM LOADS



These graphs show monthly regional at-plant coincident peak firm loads, except that Sierra Nevada Project Use loads may not be coincident with the load management loads. Amounts for Desert Southwest and Rocky Mountain exclude

Salt Lake City Area/Integrated Project loads. They are included in the CRSP MC amounts.

Our FY99 coincident firm and contingent peak load was 6,768 MW. The peak occurred on July 13 during the hour ending at 6 p.m. (MDT).

1999 SALES SUMMARY

Power Sales by Project ¹

Project	FY 1999		FY 1998	
	(MWh)	Revenue (\$)	(MWh)	Revenue (\$)
Boulder Canyon	5,182,064	48,867,047	5,697,855	43,480,083
Central Arizona (Navajo) ²	4,072,000	74,879,056	3,504,000	70,770,835
Central Valley	9,703,215	158,772,795	10,417,339	182,950,411
Falcon-Amistad	87,958	3,291,652	137,045	3,588,928
Loveland Area Projects	2,198,245	46,116,413	2,201,105	45,668,992
Parker-Davis	1,766,042	10,650,205	1,631,313	7,934,542
Pick-Sloan Missouri Basin—Eastern Div	13,325,478	235,306,023	12,776,137	212,536,383
Provo River	16,951	208,261	32,475	265,032
Salt Lake City Area/Integrated Projects	8,690,941	143,388,660	8,600,636	152,562,429
Washoe	15,191	271,773	10,916	64,293
Total Western	45,058,085	721,751,885	45,008,821	719,821,927

¹ Includes firm, nonfirm, project use, interdepartmental and interproject customers and energy sales to them.

² On June 1, 1994, Salt River Project began acting as the scheduling and marketing agent for the CAP portion of the Navajo Generating Station (547 MW). Western retains marketing and repayment responsibility and SRP pays Western monthly fixed and variable costs to meet repayment requirements.

Sales by Customer Category

Customer category	FY 1999		FY 1998	
	(MWh)	Revenue (\$)	(MWh)	Revenue (\$)
Municipalities	11,134,159	171,611,733	10,861,290	174,060,659
Cooperatives	8,723,656	146,068,807	8,998,202	154,008,919
Federal agencies	2,416,233	36,170,728	2,075,391	36,042,325
State agencies	11,255,285	157,946,346	11,306,988	153,737,884
Public utility districts	4,167,926	83,153,692	4,304,171	86,611,584
Irrigation districts	613,882	7,984,979	694,902	8,182,525
Investor-owned utilities ¹	3,122,012	64,326,645	4,660,917	80,452,111
Power marketers	1,598,144	33,547,874	542,257	10,539,481
Subtotal	43,031,296	700,810,804	43,444,118	703,635,488
Project use	1,584,229	10,496,771	1,507,606	14,627,009
Interproject ²	442,560	10,444,311	57,098	1,559,429
Total Western	45,058,085	721,751,886	45,008,822	719,821,926

¹ Western has one long-term investor-owned firm power customer, Southern California Edison, which has an entitlement to Boulder Canyon Project power. Western sells CVP power excess to preference customer requirements through an energy banking arrangement with Pacific Gas and Electric Company. Western, as needed, may repurchase this energy at discounted rates.

² Interproject sales are sales among the various projects.

Power Sales by State and Customer Class

State ¹	Municipalities	Cooperatives	Federal agencies	State agencies	Public utility districts	Irrigation districts	Investor-owned utilities	Power marketers	Inter-project	Project use	Total
Alabama											
Energy sales - MWh	0	0	0	0	0	0	0	21,380	0	0	21,380
Power revenue - \$	0	0	0	0	0	0	0	424,910	0	0	424,910
Arizona											
Energy sales - MWh	112,106	245,805	592,047	6,385,561	0	162,009	8,130	363	22,039	195,267	7,760,027
Power revenue - \$	768,377	3,027,717	7,222,419	102,495,316	0	1,652,700	110,368	7,857	469,603	502,572	116,922,646
California											
Energy sales - MWh	4,928,861	85,905	1,383,915	1,565,291	2,695,552	448,525	333,364	0	0	1,288,322	12,729,735
Power revenue - \$	75,365,174	1,303,270	22,608,068	13,883,142	52,996,469	6,297,964	5,796,547	0	0	8,700,000	186,950,634
Colorado											
Energy sales - MWh	734,843	2,178,044	68,312	928,682	0	0	77,475	13,349	417,277	24,608	4,442,590
Power revenue - \$	13,718,277	37,735,527	1,151,345	15,088,953	0	0	1,160,684	278,325	9,903,131	586,707	79,622,949
Connecticut											
Energy sales - MWh	0	0	0	0	0	0	0	64,758	0	0	64,758
Power revenue - \$	0	0	0	0	0	0	0	1,715,326	0	0	1,715,326
Georgia											
Energy sales - MWh	0	0	0	0	0	0	0	91,327	0	0	107,355
Power revenue - \$	0	0	0	0	0	0	0	2,753,694	0	0	3,135,724
Iowa											
Energy sales - MWh	677,056	525,548	0	0	0	0	57,762	175,377	0	0	1,435,743
Power revenue - \$	9,582,169	7,020,161	0	0	0	0	1,262,962	3,533,747	0	0	21,399,039
Idaho											
Energy sales - MWh	0	0	0	0	0	0	88,442	0	0	0	88,442
Power revenue - \$	0	0	0	0	0	0	1,494,210	0	0	0	1,494,210
Kansas											
Energy sales - MWh	99,550	92,030	0	0	0	0	0	0	0	0	191,580
Power revenue - \$	2,071,336	1,465,441	0	0	0	0	0	0	0	0	3,536,777
Louisiana											
Energy sales - MWh	0	0	0	0	0	0	16,028	0	0	0	151,591
Power revenue - \$	0	0	0	0	0	0	382,030	0	0	0	2,889,586
Massachusetts											
Energy sales - MWh	0	0	0	0	0	0	0	200	0	0	200
Power revenue - \$	0	0	0	0	0	0	0	3,200	0	0	3,200
Minnesota											
Energy sales - MWh	1,476,636	657,648	0	42,741	117,812	0	1,043,562	281,241	0	0	3,619,640
Power revenue - \$	20,299,518	9,319,704	0	576,601	2,271,587	0	22,887,549	4,951,989	0	0	60,306,948
Missouri											
Energy sales - MWh	0	0	0	0	0	0	660,709	415,008	0	0	1,075,717
Power revenue - \$	0	0	0	0	0	0	16,351,144	10,311,195	0	0	26,662,339
Montana											
Energy sales - MWh	0	681,215	2,003	3,636	0	3,148	249,267	0	0	20,336	959,605
Power revenue - \$	0	9,945,189	5,167	36,184	0	29,863	4,235,059	0	0	52,122	14,303,584
North Dakota											
Energy sales - MWh	190,226	858,200	2,204	99,189	0	0	27,438	65,875	0	5,168	1,248,300
Power revenue - \$	2,802,349	17,659,034	33,624	1,477,527	0	0	614,190	1,507,145	0	27,760	24,121,629
Nebraska											
Energy sales - MWh	574,972	207,023		288,358	1,303,775	0	0	35,210	0	2,723	2,412,061
Power revenue - \$	10,610,744	4,614,056		5,060,804	27,032,780	0	0	749,934	0	6,139	48,074,457
New Mexico											
Energy sales - MWh	209,866	981,500	147,100	0	0	0	124,443	0	0	33,998	1,496,907
Power revenue - \$	3,484,716	15,698,583	2,911,526	0	0	0	1,969,049	0	0	551,449	24,615,323
Nevada											
Energy sales - MWh	80,001	125,202	92,023	1,710,459	0	0	27,128	0	0	0	2,034,813
Power revenue - \$	628,131	2,139,993	239,151	15,518,657	0	0	523,297	0	0	0	19,049,229

Continued on next page.

Power Sales by State and Customer Class, cont.

State ¹	Municipalities	Cooperatives	Federal agencies	State agencies	Public utility districts	Irrigation districts	Investor-owned utilities	Power marketers	Inter-project	Project use	Total
Oregon											
Energy sales - MWh	0	0	0	0	0	0	151,591	0	0	0	151,591
Power revenue - \$	0	0	0	0	0	0	2,889,586	0	0	0	2,889,586
South Dakota											
Energy sales - MWh	713,142	990,436	59,985	124,718	26,061	0	50,981	0	0	2,778	1,968,101
Power revenue - \$	10,373,576	13,759,286	882,547	1,828,942	479,051	0	1,175,903	0	0	26,927	28,526,232
Texas											
Energy sales - MWh	0	87,958	0	0	0	0	10,314	151,138	0	0	249,410
Power revenue - \$	0	3,291,652	0	0	0	0	375,980	2,581,073	0	0	6,248,705
Utah											
Energy sales - MWh	1,312,909	568,919	51,084	36,943	0	0	115,501	0	3,244	2,023	2,090,623
Power revenue - \$	21,475,124	9,817,589	813,506	589,869	0	0	1,484,059	0	71,577	20,579	34,272,303
Washington											
Energy sales - MWh	0	0	0	0	0	0	30,328	0	0	0	30,328
Power revenue - \$	0	0	0	0	0	0	719,646	0	0	0	719,646
Wisconsin											
Energy sales - MWh	0	0	0	0	24,726	0	20,979	0	0	0	45,705
Power revenue - \$	0	0	0	0	373,805	0	339,033	0	0	0	712,838
Wyoming											
Energy sales - MWh	23,990	438,222	17,559	61,577	0	200	0	0	0	9,006	550,554
Power revenue - \$	432,242	9,271,605	303,375	1,279,983	0	4,452	0	0	0	22,516	11,314,173
Canada											
Energy sales - MWh	0	0	0	0	0	0	0	282,918	0	0	282,918
Power revenue - \$	0	0	0	0	0	0	0	4,729,479	0	0	4,729,479
TOTAL											
Energy sales - MWh	11,134,158	8,723,655	2,416,232	11,255,285	4,167,926	613,882	3,122,012	1,598,144	442,560	1,584,229	45,058,083
Power revenue - \$	171,611,733	146,068,807	36,170,728	157,946,346	83,153,692	7,984,979	64,326,645	33,547,874	10,444,311	10,496,771	721,751,886

¹ Represents billing address of customer, but not necessarily location of power delivery.

Firm and Nonfirm Energy Sales by Project

Project	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Boulder Canyon						
Energy sales - MWh	5,182,064	0	5,182,064	5,697,855	0	5,697,855
Power revenues - \$	48,842,125	24,922	48,867,047	43,480,083	0	43,480,083
Central Arizona						
Energy sales - MWh	4,072,000	0	4,072,000	3,504,000	0	3,504,000
Power revenues - \$	74,879,056	0	74,879,056	70,770,835	0	70,770,835
Central Valley						
Energy sales - MWh	8,060,701	354,192	8,414,893	6,984,169	2,040,863	9,025,032
Power revenues - \$	140,868,001	9,204,794	150,072,795	138,188,957	31,669,589	169,858,546
Falcon-Amistad						
Energy sales - MWh	0	87,958	87,958	0	137,045	137,045
Power revenues - \$	0	3,291,652	3,291,652	0	3,588,928	3,588,928
Loveland Area Projects						
Energy sales - MWh	2,160,319	28,784	2,189,103	2,048,147	143,574	2,191,721
Power revenues - \$	45,665,655	427,290	46,092,946	44,496,675	1,148,592	45,645,267
Parker-Davis						
Energy sales - MWh	1,249,727	197,853	1,447,580	1,338,054	293,036	1,631,089
Power revenues - \$	3,082,127	4,340,999	7,423,127	3,647,829	4,280,456	7,928,286
Provo River						
Energy sales - MWh	0	16,951	16,951	0	32,475	32,475
Power revenues - \$	0	208,261	208,261	0	265,032	265,032
Pick-Sloan Missouri Basin Program—Eastern Division						
Energy sales - MWh	8,768,122	4,392,056	13,160,178	8,808,802	3,929,486	12,738,288
Power revenues - \$	136,037,247	96,587,464	232,624,711	136,669,871	75,691,913	212,361,784
Salt Lake City Area/ Integrated Projects						
Energy sales - MWh	7,535,897	909,481	8,445,378	7,065,437	1,410,259	8,475,696
Power revenues - \$	122,120,192	14,959,244	137,079,436	125,938,923	23,733,513	149,672,436
Washoe						
Energy sales - MWh	0	15,191	15,191	0	10,916	10,916
Power revenues - \$	0	271,773	271,773	0	64,293	64,293
Subtotal						
Energy sales - MWh	37,028,830	6,002,466	43,031,296	35,446,464	7,997,654	43,444,117
Power revenues - \$	571,494,404	129,316,401	700,810,804	563,193,173	140,442,316	703,635,489
Project use						
Energy sales - MWh	1,584,229	0	1,584,229	1,507,606	0	1,507,606
Power revenues - \$	10,496,771	0	10,496,771	14,627,009	0	14,627,009
Subtotal						
Energy sales - MWh	38,613,059	6,002,466	44,615,525	36,954,070	7,997,654	44,951,723
Power revenues - \$	581,991,174	129,316,401	711,307,575	577,820,182	140,442,316	718,262,498
Interproject						
Energy sales - MWh	19,651	422,909	442,560	0	57,098	57,098
Power revenues - \$	616,786	9,827,525	10,444,310	0	1,559,429	1,559,429
Total Western						
Energy sales - MWh	38,632,710	6,425,375	45,058,085	36,954,070	8,054,752	45,008,821
Power revenues - \$	582,607,960	139,143,925	721,751,885	577,820,182	142,001,745	719,821,927

Firm and Nonfirm Energy Sales by Customer Category

Customer class	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Municipalities						
Energy sales - MWh	10,787,327	346,832	11,134,159	9,992,195	869,095	10,861,290
Revenue - \$	164,532,120	7,079,613	171,611,733	160,062,729	13,997,930	174,060,659
Cooperatives						
Energy sales - MWh	8,257,237	466,419	8,723,656	7,985,028	1,013,174	8,998,202
Revenue - \$	135,361,081	10,707,726	146,068,807	136,792,349	17,216,570	154,008,919
Federal						
Energy sales - MWh	2,398,390	17,843	2,416,233	2,050,443	24,948	2,075,391
Revenue - \$	35,857,444	313,284	36,170,728	35,428,538	613,787	36,042,325
State						
Energy sales - MWh	10,894,690	360,595	11,255,285	10,793,682	513,306	11,306,988
Revenue - \$	150,282,518	7,663,828	157,946,346	145,160,486	8,577,399	153,737,884
Public utility districts						
Energy sales - MWh	3,748,063	419,863	4,167,926	3,629,346	674,825	4,304,171
Revenue - \$	71,752,496	11,401,196	83,153,692	73,349,711	13,261,873	86,611,584
Irrigation districts						
Energy sales - MWh	609,760	4,122	613,882	694,336	566	694,902
Revenue - \$	7,869,934	115,045	7,984,979	8,171,779	10,746	8,182,525
Investor-owned utilities ¹						
Energy sales - MWh	333,364	2,788,648	3,122,012	301,434	4,359,483	4,660,917
Revenue - \$	5,838,809	58,487,836	64,326,645	4,227,580	76,224,531	80,452,111
Power marketers						
Energy sales - MWh	0	1,598,144	1,598,144	0	542,257	542,257
Revenue - \$	0	33,547,874	33,547,874	0	10,539,481	10,539,481
Subtotal						
Energy sales - MWh	37,028,830	6,002,466	43,031,296	35,446,464	7,997,654	43,444,117
Revenue - \$	571,494,404	129,316,401	700,810,804	563,193,173	140,442,316	703,635,489
Project use						
Energy sales - MWh	1,584,229	0	1,584,229	1,507,606	0	1,507,606
Revenue - \$	10,496,771	0	10,496,771	14,627,009	0	14,627,009
Total Western						
Energy sales - MWh	38,613,059	6,002,466	44,615,525	36,954,070	7,997,654	44,951,723
Revenue - \$	581,991,175	129,316,401	711,307,575	577,820,182	140,442,316	718,262,498
Interproject						
Energy sales - MWh	19,651	422,909	442,560	0	57,098	57,098
Revenue - \$	616,786	9,827,525	10,444,311	0	1,559,429	1,559,429
Total Western						
Energy sales - MWh	38,632,710	6,425,375	45,058,085	36,954,070	8,054,752	45,008,821
Revenue - \$	582,607,961	139,143,926	721,751,886	577,820,182	142,001,745	719,821,927

¹ Western has one long-term investor-owned firm power customer, Southern California Edison, which has an entitlement to Boulder Canyon Project power. In addition, Pacific Gas and Electric Company purchases CVP power through an energy banking arrangement.

PURCHASES SUMMARY

Purchased Power Cost by Project

Project and source	FY 1999		FY 1998	
	Energy MWh	Cost \$(000)	Energy MWh	Cost \$(000)
Central Valley				
Non-Western	3,381,976	103,859	3,911,493	124,717
Western	0	0	0	0
Total project purchases	3,381,976	103,859	3,911,493	124,717
Loveland Area Projects				
Non-Western	88,961	1,741	54,421	1,610
Western	184,227	4,006	27,585	764
Total project purchases	273,188	5,747	82,006	2,374
Parker-Davis				
Non-Western	3,835	131	1,463	41
Western	125	7	10,901	501
Total project purchases	3,960	138	12,364	542
Pick-Sloan Missouri Basin Program—Eastern Division				
Non-Western	2,149,678	38,569	1,618,272	25,863
Western	0	0	0	0
Total project purchases	2,149,678	38,569	1,618,272	25,863
Salt Lake City/Area Integrated Projects				
Non-Western	946,746	22,411	335,915	7,116
Western	142,740	3,427	3,799	126
Total project purchases	1,089,486	25,838	339,714	7,242
Total Western				
Non-Western	6,571,196	166,711	5,921,564	159,347
Western	327,092	7,440	42,285	1,391
Total power purchases	6,898,288	174,150	5,963,849	160,738

Purchased Transmission Cost by Project

Project and source	FY 1999	FY 1998	Project and source	FY 1999	FY 1998
	Cost \$(000)	Cost \$(000)		Cost \$(000)	Cost \$(000)
Central Valley			Pick-Sloan Missouri Basin Program—Eastern Division		
Non-Western	16,518	18,382	Non-Western	6,087	5,952
Western	0	0	Western	122	5
Total project purchases	16,518	18,382	Total project purchases	6,209	5,957
Loveland Area Projects			Salt Lake City/Area Integrated Projects		
Non-Western	4,479	4,272	Non-Western	5,557	4,755
Western	328	9	Western	1,426	881
Total project purchases	4,807	4,281	Total project purchases	6,983	5,636
Parker-Davis			Total Western		
Non-Western	0	0	Non-Western	32,641	33,361
Western	0	0	Western	1,876	895
Total project purchases	0	0	Total transmission purchases	34,517	34,256

Purchased Ancillary Services Cost by Project

Project and source	FY 1999	Project and source	FY 1999
	Cost \$(000)		Cost \$(000)
Loveland Area Projects		Total Western	
Non-Western	94	Non-Western	94
Western	17	Western	17
Total project purchases	111	Total ancillary service purchases	111

100 CUSTOMERS

Top 25 Customers in Energy Sales - FY 1999

Firm energy sales

Rank	Customer	MWh	Percent of total firm sales
1	Salt River Project	4,736,143	13
2	Tri-State Generation & Trans. Assn.	2,372,020	6
3	Sacramento MUD	2,055,785	6
4	Colorado River Commission of Nevada	1,710,459	5
5	Silicon Valley Power (Santa Clara)	1,495,997	4
6	Metropolitan Water District of So. Calif.	1,346,638	4
7	Arizona Power Authority	1,209,677	3
8	Platte River Power Authority	846,304	2
9	Utah Associated Municipal Power	797,119	2
10	Plains Electric G & T	764,913	2
11	Los Angeles Dept. of Water and Power	750,748	2
12	Nebraska Public Power District	734,062	2
13	East River Power Coop.	727,630	2
14	Palo Alto, Calif.	698,645	2
15	Oakland Operations Office—DOE	607,985	2
16	Redding, Calif.	535,848	1
17	Roseville, Calif.	527,494	1
18	Colorado Springs Utilities	456,017	1
19	Utah Municipal Power Agency	430,655	1
20	Omaha Public Power District	401,133	1
21	Minnkota Power Coop.	373,972	1
22	Central Montana Electric Power Coop.	357,383	1
23	Moon Lake Electric Assn.	331,080	1
24	Central Power Electric Coop.	327,732	1
25	Upper Missouri G&T Elec. Coop.	309,061	1
Total		24,904,501	67

Nonfirm energy sales

Rank	Customer	MWh	Percent of total nonfirm sales
1	Utilicorp	606,871	10
2	Northern States Power Co.	528,536	9
3	Minnesota Power	370,044	6
4	Aquila Power	363,997	6
5	Salt River Project	340,778	6
6	PacifiCorp	267,092	4
7	Montana Power Company	249,267	4
8	Cargill-Alliant	230,721	4
9	Alliant Services Company	175,377	3
10	Powerex	154,563	3
11	Otter Tail Power Company	144,982	2
12	Public Service Company of New Mexico	124,443	2
13	Arizona Electric Power Coop	122,982	2
14	Tenaska Power Services Co.	108,258	2
15	Western Resources	91,327	2
16	Nebraska Public Power District	91,167	2
17	Idaho Power Company	88,442	1
18	Medina Electric Cooperative and South Texas Electric Cooperative	87,958	1
19	Sacramento MUD	85,914	1
20	So. Minn Muni Pwr Agency	82,751	1
21	Public Service Company of Colorado	77,475	1
22	The Energy Authority	64,758	1
23	Roseville, Calif.	59,552	1
24	Midamerican Energy Company	57,762	1
25	Omaha Public Power District	54,563	1
Total		4,629,580	77

Top 25 Customers in Power Revenue - FY 1999

Firm energy revenues

Rank	Customer	\$	Percent of total firm revenue
1	Salt River Project	83,641,047	15
2	Tri-State Generation & Trans. Assn.	43,856,194	8
3	Sacramento MUD	36,815,237	6
4	Silicon Valley Power (Santa Clara)	22,193,722	4
5	Nebraska Public Power District	16,870,133	3
6	Colorado River Commission of Nevada	15,278,041	3
7	Platte River Power Authority	13,287,786	2
8	Utah Associated Municipal Power	13,210,357	2
9	Plains Electric G & T	12,337,277	2
10	Palo Alto, Calif.	11,335,000	2
11	Metropolitan Water District of So. Calif.	10,192,496	2
12	Los Angeles Dept. of Water and Power	9,834,117	2
13	East River Power Coop.	9,733,785	2
14	Arizona Power Authority	9,344,510	2
15	Redding, Calif.	8,894,171	2
16	Roseville, Calif.	8,804,491	2
17	Colorado Springs Utilities	8,565,203	1
18	Oakland Operations Office—DOE	7,275,780	1
19	Basin Electric Power Coop.	7,266,576	1
20	Utah Municipal Power Agency	6,946,173	1
21	Moon Lake Electric Assn.	5,745,471	1
22	Ames Research Center—NASA	5,446,391	1
23	Central Montana Electric Power Coop.	5,277,848	1
24	Omaha Public Power District	5,226,954	1
25	Minnkota Power Coop.	5,009,199	1
Total		\$382,387,959	67

Nonfirm energy revenues

Rank	Customer	\$	Percent of total nonfirm revenue
1	Utilicorp	15,298,007	12
2	Northern States Power Co.	11,973,790	9
3	Aquila Power	9,490,883	7
4	Minnesota Power	7,650,481	6
5	Salt River Project	6,717,200	5
6	PacifiCorp	4,373,645	3
7	Montana Power Company	4,235,059	3
8	Cargill-Alliant	3,870,116	3
9	Alliant Services Company	3,533,747	3
10	Sacramento MUD	3,338,683	3
11	Medina Electric Cooperative and South Texas Electric Cooperative	3,291,652	3
12	Otter Tail Power Company	3,263,278	3
13	Omaha Public Power District	2,758,949	2
14	Western Resources	2,753,694	2
15	Arizona Electric Power Coop	2,722,079	2
16	Powerex	2,652,831	2
17	Public Service Company of New Mexico	1,969,050	2
18	Nebraska Public Power District	1,796,771	1
19	The Energy Authority	1,715,326	1
20	So. Minn Muni Pwr Agency	1,627,189	1
21	Idaho Power Company	1,494,210	1
22	Tenaska Power Services Co.	1,491,269	1
23	Redding, Calif.	1,429,655	1
24	Roseville, Calif.	1,352,937	1
25	Midamerican Energy Company	1,262,962	1
Total		\$102,063,462	79

Customer Count by Project ¹

Project	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Boulder Canyon	15	0	0	15	15	0	0	15
Total Boulder Canyon	15	0	0	15	15	0	0	15
Central Arizona	1	0	0	1	1	0	1	2
Project use sales	0	0	0	0	0	0	0	0
Total Central Arizona	1	0	0	1	1	0	1	2
Central Valley	63	16	1	80	66	14	4	84
Project use sales	34	0	0	34	34	0	0	34
Total Central Valley	97	16	1	114	100	14	4	118
Falcon-Amistad	0	0	2	2	0	0	1	1
Total Falcon-Amistad	0	0	2	2	0	0	1	1
Loveland Area Projects	28	3	8	39	30	1	0	31
Project use sales	9	0	0	9	9	0	0	9
Interproject sales	0	0	0	0	0	0	0	0
Total Loveland Area Projects	37	3	8	48	39	1	0	40
Parker-Davis	20	4	19	43	23	3	21	47
Project use sales	2	0	0	2	0	0	0	0
Interproject sales	0	0	1	1	0	0	2	2
Total Parker-Davis	22	4	20	46	23	3	23	49
Pick-Sloan—Eastern ²	256	9	47	312	243	10	46	299
Project use sales	29	0	0	29	29	0	0	29
Interproject sales	0	1	1	2	0	0	1	1
Total Pick-Sloan—Eastern	285	10	48	343	272	10	47	329
Provo	0	0	2	2	0	0	2	2
Total Provo	0	0	2	2	0	0	2	2
Salt Lake Integrated Projects ³	65	44	24	133	45	63	25	133
Project use sales	4	0	0	4	4	0	0	4
Interproject sales	0	0	2	2	0	0	2	2
Total Salt Lake Integrated Projects	69	44	26	139	49	63	27	139
Washoe	0	0	1	1	0	0	1	1
Total Washoe	0	0	1	1	0	0	1	1

¹ Double-counting occurs when a customer purchases power from more than one project.

² Cooperative customers in Minnesota increased because allocations were transferred to the individual coops in December 1998.

³ Customer count includes 34 UAMPS members.

Note: In FY 1999, Western sold power to 498 preference customers (col 1+2); 73 also purchase nonfirm power (col. 2). We also sold project use power to 78 customers, for a total of 576 firm customers. Nonfirm sales were made to 70 other customers (col. 3), such as power marketers and investor-owned utilities. Detailed information on each customer is listed in the by-project Sales and Revenue tables.

Customers by State

State	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Alabama	0	0	1	1	0	0	1	1
Arizona	28	3	7	38	24	8	2	34
California	78	18	3	99	74	23	4	101
Connecticut	0	0	1	1	0	0	0	0
Colorado	26	3	3	32	26	4	3	33
Georgia	0	0	2	2	0	0	1	1
Idaho	0	0	1	1	0	0	1	1
Iowa	48	0	3	51	43	1	9	53
Kansas	2	0	0	2	2	0	0	2
Massachusetts	0	0	1	1	0	0	1	1
Minnesota	63	2	9	74	50	3	8	61
Missouri	0	0	6	6	0	0	8	8
Montana	10	0	1	11	9	0	1	10
Nebraska	60	6	4	70	63	4	1	68
Nevada	5	0	2	7	3	2	2	7
New Mexico	7	7	1	15	7	7	1	15
North Dakota	29	2	3	34	29	1	3	33
Oklahoma	0	0	0	0	0	0	1	1
Oregon	0	0	1	1	0	0	2	2
South Dakota	49	0	3	52	49	0	3	52
Texas	0	0	7	7	0	0	6	6
Utah ¹	15	32	1	48	9	40	4	53
Washington	0	0	1	1	0	0	0	0
Wisconsin	0	0	3	3	0	0	5	5
Wyoming	7	2	0	9	9	0	0	9
Canada	0	0	5	5	0	0	3	3
Subtotal	425	73	67	565	397	93	70	560
Project use	78	0	0	78	76	0	0	76
Subtotal	503	73	67	643	473	93	70	636
Interproject sales	0	1	3	4	0	0	5	5
Total customers ²	503	74	70	647	473	93	75	641

¹ Customer count includes 34 UAMPS members (31 municipalities and 3 irrigation districts).

² Increase in firm power customers resulted when allocations were transferred to individual Minnesota coops in December 1998.

Note: In FY 1999, Western sold power to 498 preference customers (col 1+2); 73 also purchase nonfirm power (col. 2). We sold project use power to 78 customers, for a total of 576 firm customers. Nonfirm sales were made to 70 other customers (col. 3), such as power marketers and investor-owned utilities. Detailed information on each customer is listed in the by-project Sales and Revenue tables.

Customers by Customer Category

Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Municipalities ¹	232	49	3	284	225	56	4	285
Cooperatives	44	10	4	58	27	15	8	50
Public utility districts	6	6	5	17	7	6	5	18
Federal agencies	48	1	1	50	47	5	2	54
State agencies	48	5	2	55	46	7	0	53
Irrigation districts ¹	45	2	0	47	45	3	0	48
Investor-owned utilities	2	0	22	24	0	1	30	31
Power marketers	0	0	30	30	0	0	21	21
Project use sales	78	0	0	78	76	0	0	76
Subtotal	503	73	67	643	473	93	70	636
Interdepartment sales	0	0	0	0	0	0	0	0
Subtotal	503	73	67	643	473	93	70	636
Interproject sales	0	1	3	4	0	0	5	5
Total customers ²	503	74	70	647	473	93	75	641

¹ Customer count includes 34 UAMPS members (31 municipalities and 3 irrigation districts).

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Customers by State and Customer Category

State/Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Alabama								
Power marketers	0	0	1	1	0	0	1	1
Arizona								
Municipalities	5	0	0	5	5	1	0	6
Cooperatives	1	0	1	2	0	1	0	1
Federal agencies	9	1	1	11	7	3	0	10
State agencies	1	2	1	4	1	2	0	3
Irrigation districts	12	0	0	12	11	1	0	12
Investor-owned utilities	0	0	3	3	0	0	2	2
Power marketers	0	0	1	1	0	0	0	0
California								
Municipalities	17	11	1	29	9	16	1	26
Cooperatives	0	1	0	1	1	0	0	1
Federal agencies	20	0	0	20	22	1	1	24
State agencies	8	1	1	10	8	1	0	9
Public utility districts	6	3	1	10	7	3	1	11
Irrigation districts	25	2	0	27	27	1	0	28
Investor-owned utilities	2	0	0	2	0	1	1	2
Colorado								
Municipalities	16	1	0	17	16	2	0	18
Cooperatives	4	1	0	5	4	1	0	5
Federal agencies	5	0	0	5	5	0	0	5
State agencies	1	1	0	2	1	1	0	2
Investor-owned utilities	0	0	1	1	0	0	1	1
Power marketers	0	0	2	2	0	0	2	2
Connecticut								
Power marketers	0	0	1	1	0	0	0	0
Georgia								
Power marketers	0	0	2	2	0	0	1	1
Idaho								
Investor-owned utilities	0	0	1	1	0	0	1	1
Iowa								
Municipalities	44	0	1	45	43	1	1	45
Cooperatives	4	0	0	4	0	0	4	4
Investor-owned utilities	0	0	1	1	0	0	3	3
Power marketers	0	0	1	1	0	0	1	1
Kansas								
Municipalities	1	0	0	1	1	0	0	1
Cooperatives	1	0	0	1	1	0	0	1
Massachusetts								
Investor-owned utilities	0	0	0	0	0	0	1	1
Power marketers	0	0	1	1	0	0	0	0
Minnesota								
Municipalities	45	1	1	47	45	1	1	47
Cooperatives	15	1	1	17	2	2	1	5
State agencies	3	0	0	3	3	0	0	3
Public utility districts	0	0	1	1	0	0	1	1
Investor-owned utilities	0	0	3	3	0	0	3	3
Power marketers	0	0	3	3	0	0	2	2
Missouri								
Cooperatives	0	0	0	0	0	0	1	1
Investor-owned utilities	0	0	3	3	0	0	5	5
Power marketers	0	0	3	3	0	0	2	2
Montana								
Cooperatives	3	0	0	3	3	0	0	3
Federal agencies	2	0	0	2	2	0	0	2
State agencies	2	0	0	2	1	0	0	1
Irrigation districts	3	0	0	3	3	0	0	3
Investor-owned utilities	0	0	1	1	0	0	1	1
Nebraska								
Municipalities	52	2	0	54	53	1	0	54
Cooperatives	0	1	0	1	1	0	0	1
Public utility districts	0	3	0	3	0	3	0	3
State agencies	8	0	0	8	9	0	0	9
Power marketer	0	0	4	4	0	0	1	1

Customers by State and Customer Category, cont.

State/Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Nevada								
Municipalities	1	0	0	1	1	0	0	1
Cooperatives	1	0	0	1	0	1	0	1
Federal agencies	2	0	0	2	2	0	0	2
State agencies	1	0	0	1	0	1	0	1
Investor-owned utilities	0	0	2	2	0	0	2	2
New Mexico								
Municipalities	3	2	0	5	4	1	0	5
Cooperatives	0	5	0	5	0	5	0	5
Federal agencies	4	0	0	4	3	1	0	4
Investor-owned utilities	0	0	1	1	0	0	1	1
North Dakota								
Municipalities	11	0	0	11	11	0	0	11
Cooperatives	5	2	0	7	5	1	1	7
Federal agencies	1	0	0	1	1	0	0	1
State agencies	12	0	0	12	12	0	0	12
Investor-owned utilities	0	0	1	1	0	0	1	1
Power marketers	0	0	2	2	0	0	1	1
Oklahoma								
Power marketers	0	0	0	0	0	0	1	1
Oregon								
Federal agencies	0	0	0	0	0	0	1	1
Investor-owned utilities	0	0	1	1	0	0	1	1
South Dakota								
Municipalities	33	0	0	33	33	0	0	33
Cooperatives	5	0	0	5	5	0	0	5
Federal agencies	1	0	0	1	1	0	0	1
State agencies	10	0	0	10	10	0	0	10
Public utility districts	0	0	2	2	0	0	2	2
Investor-owned utilities	0	0	1	1	0	0	1	1
Texas								
Cooperatives	0	0	2	2	0	0	1	1
Investor-owned utilities	0	0	0	0	0	0	1	1
Power marketers	0	0	5	5	0	0	4	4
Utah ¹								
Municipalities	3	32	0	35	3	33	1	37
Cooperatives	4	0	0	4	1	4	0	5
Federal agencies	3	0	0	3	3	0	0	3
State agencies	2	0	0	2	0	2	0	2
Irrigation districts	3	0	0	3	2	1	0	3
Investor-owned utilities	0	0	1	1	0	0	2	2
Power marketers	0	0	0	0	0	0	1	1
Washington								
Investor-owned utilities	0	0	1	1	0	0	0	0
Wisconsin								
Public utility districts	0	0	1	1	0	0	1	1
Investor-owned utilities	0	0	2	2	0	0	4	4
Wyoming								
Municipalities	1	0	0	1	1	0	0	1
Cooperatives	3	1	0	4	4	0	0	4
Federal agencies	1	0	0	1	1	0	0	1
State agencies	0	1	0	1	1	0	0	1
Irrigation districts	2	0	0	2	2	0	0	2
Canada								
Power marketers	0	0	5	5	0	0	3	3
Subtotal	425	73	67	565	397	93	70	560
Project use sales	78	0	0	78	76	0	0	76
Subtotal	503	73	67	643	473	93	70	636
Interproject sales	0	1	3	4	0	0	5	5
Total ²	503	74	70	647	473	93	75	641

¹ Customer count includes 34 UAMPS members (31 municipalities and 3 irrigation districts).

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Note: In FY 1999, Western sold power to 498 preference customers (col 1+2); 73 also purchased nonfirm power (col. 2). We sold project use power to 78 customers, for a total of 576 firm customers. Nonfirm sales were made to 70 other customers (col. 3), such as power marketers and investor-owned utilities. Detailed information on each customer is listed in the by-project Sales and Revenue tables.

1999 REPAYMENT

Comparison of Cumulative 1998 and 1999 Repayment

As of September 30, 1997 and 1998
(in millions of dollars)

Project power system	Gross operating revenues				Income transfers (net)				O & M and other expenses			
	Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99
Boulder Canyon	1,091	0	60	1,151	2	0	1	3	512	(3)	33	542
Central Arizona (Navajo)	1,360	0	99	1,459	(512)	0	(97)	(609)	839	0	1	841
Central Valley	4,234	(1)	182	4,416	0*	0	0	0*	622	0	45	666
Collbran	34	0	2	37	0	0	0	0	15	0	1	16
Colorado River Storage	2,590	0	121	2,711	0*	0	0	0*	799	0	49	848
Dolores	11	0	3	14	0*	0	0	0*	1	0	1	2
Falcon-Amistad	69	0	4	73	0	0	0	0	18	0	1	19
Fryingpan-Arkansas	152	0	14	166	0	0	0	0	41	0*	3	44
Intertie	110	0	9	118	0	0	0	0	53	0*	5	58
Parker-Davis	771	0*	38	808	1	0	(1)	0*	399	0	18	416
Pick-Sloan Missouri Basin Program	4,849	0*	298	5,146	3	0	0	3	2,160	6	134	2,299
Provo River	6	0	0*	6	0	0	0	0	3	0	0*	4
Rio Grande	73	0	2	75	0	0	0	0	35	0	2	37
Seedskadee	16	0	1	17	0	0	0	0	7	0	0*	7
Washoe	1	0*	0*	2	0	0	0	0	2	0*	0*	2
Total	15,367	(1)	833	16,199	(506)	0	(97)	(603)	5,506	3	293	5,801

* Less than 500,000

Application of FY 1999 Revenue

As of September 30, 1997 and 1998
(in millions of dollars)

Project power system	Principal repaid				Power investment				Nonpower investment			
	Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99
Boulder Canyon	253	4	7	264	538	0	3	541	25	0	0	25
Central Arizona (Navajo)	0	0	0	0	0	0	0	0	0	0	0	0
Central Valley	354	0	10	363	559	0	0*	559	66	0	0	66
Collbran	9	0	1	10	15	0	0	15	5	0	0	5
Colorado River Storage	628	0	38	666	1,043	0	33	1,076	2,280	0	669	2,950
Dolores	1	0	0	1	36	0	0	36	0	0	0	0
Falcon-Amistad	10	0	0*	10	45	0	0	45	0	0	0	0
Fryingpan-Arkansas	9	0	2	11	148	0	0*	148	0	0	0	0
Intertie	2	0	0	2	208	0	0*	209	0	0	0	0
Parker-Davis	217	0	0*	218	330	0	10	340	27	0	4	31
Pick-Sloan Missouri Basin Program	1,017	2	83	1,102	2,195	(6)	108	2,297	730	3	0	734
Provo River	1	0	0*	1	2	0	0	2	0*	0	0	0*
Rio Grande	19	0	0*	19	14	0	0	14	6	0	0	6
Seedskadee	3	0	1	4	7	0	0	7	0	0	0	0
Washoe	0	0	0	0	4	0	0*	5	0	0	0	0
Total	2,523	6	142	2,671	5,144	(6)	154	5,294	3,139	3	673	3,817

* Less than 500,000

Continued on next page.

Purchased power expenses				Interest expenses				Principal repaid				(Deficits)/Surplus			
Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99
11	0	0	11	309	0	21	330	253	4	7	264	(5)	0	1	(4)
0*	0*	0	0	0*	0	0*	0*	0	0	0	0	8	0*	1	9
2,916	0	126	3,042	343	0	1	344	354	0	10	363	0	(1)	1	0
0	0	0	0	11	0	0*	11	9	0	1	10	0	0	0	0
556	0	8	564	606	0	27	633	628	0	38	666	0	0	0	0
0	0	0	0	8	0	2	11	1	0	0	1	0	0	0	0
0	0	0	0	41	0	2	44	10	0	0*	10	0*	0	0	0*
24	0	4	28	79	0	4	83	9	0	2	11	0*	0*	0*	0
0	0	0	0	83	1	18	102	2	0	0	2	(28)	(1)	(14)	(43)
23	0	0	23	133	0*	12	145	217	0	0*	218	0*	0	7	7
458	(7)	16	468	1,216	(1)	64	1,279	1,017	2	83	1,102	0	0*	0*	0
0*	0	0*	0*	1	0	0*	1	1	0	0*	1	0*	0	0*	0*
5	0	0	5	14	0	0*	14	19	0	0*	19	0*	0	0*	0*
0	0	0	0	6	0	0*	6	3	0	1	4	0	0	0	0
0	0	0	0	3	(1)	0*	3	0	0	0	0	(4)	1	0*	(3)
3,993	(7)	154	4,141	2,853	(1)	151	3,006	2,523	6	143	2,671	(29)	(1)	(4)	(34)

Total investment				Unpaid power investment				Unpaid nonpower investment				Total unpaid investment			
Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99	Cum 98	Adjustments	Anl 99	Cum 99
563	0	3	566	286	(4)	(5)	278	25	0	0	25	311	(4)	(4)	302
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
624	0	0*	624	205	0	(10)	195	66	0	0	66	271	0	(10)	261
20	0	0	20	6	0	(1)	5	5	0	0	5	11	0	(1)	10
3,323	0	702	4,025	415	0	(5)	410	2,280	0	669	2,950	2,695	0	664	3,359
36	0	0	36	35	0	0	35	0	0	0	0	35	0	0	35
45	0	0	45	35	0	0*	34	0	0	0	0	35	0	0*	34
148	0	0*	148	139	0	(2)	137	0	0	0	0	139	0	(2)	137
208	0	0*	209	207	0	0*	207	0	0	0	0	207	0	0*	207
357	0	14	371	140	0	10	149	0	0	4	4	140	0	13	153
2,925	(3)	108	3,031	1,180	(8)	25	1,197	728	3	0	732	1,908	(5)	25	1,928
2	0	0	2	0*	0	0*	0*	0*	0	0	0	0*	0	0*	0*
19	0	0	19	0*	0	0*	0*	0	0	0	0	0*	0	0*	0*
7	0	0	7	4	0	(1)	4	0	0	0	0	4	0	(1)	4
4	0	0*	5	4	(4)	5	5	0	0	0	0	4	0	0*	5
8,281	(3)	827	9,108	2,656	(16)	16	2,656	3,104	3	673	3,782	5,760	(9)	684	6,435

Western Consolidated

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars In millions)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999
Revenue				
Gross operating revenue	15,366	0	833	16,198
Income transfers (net)	(506)	0	(97)	(602)
Total operating revenue	14,861	0	736	15,596
Expenses:				
O & M and other	5,506	3	292	5,801
Purchase power and other	3,994	(7)	154	4,141
Interest				
Federally financed	2,733	(1)	141	2,873
Non-Federally financed	121	0	11	132
Total Interest	2,854	(1)	152	3,005
Total expense	12,354	(5)	599	12,948
(Deficit)/surplus revenue	(29)	0	(6)	(34)
Indirect (deficit)/surplus revenue		0	0	
Adjusted (deficit)/surplus revenue	(29)	0	(6)	(34)
Investment:				
Federally financed power	4,949	(6)	154	5,097
Non-Federally financed power	194	0	0	194
Nonpower	3,139	3	673	3,816
Total investment	8,283	(3)	827	9,107
Investment repaid:				
Federally financed power	2,454	6	141	2,600
Non-Federally financed power	33 ¹	0	3	36
Nonpower	35	0	0	35
Total investment repaid	2,522 ¹	6	143	2,671
Investment unpaid:				
Federally financed power	2,495	(16)	14	2,497
Non-Federally financed power	161	0	(3)	158
Nonpower	3,104	3	673	3,781
Total Investment unpaid	5,760	(9)	684	6,436
Fund balances:				
Colorado River Development	12	(1)	(1)	10
Working capital	1	0	0	1
Percent of investment repaid to date:				
Federal	49.59%			51.01%
Non-Federal	17.01%			18.56%
Nonpower	1.12%			0.92%

RATES

Rate Actions Summary

Rate order no.	Project	Type of rate action	Date of notice of public participation	Effective date of rate (first day of first full billing period)	Rate schedule designation	Projected annual incremental \$(000)	Notes	Date submitted to FERC
WAPA-70	Boulder Canyon	Increase	4/21/98		BCP-F5	5,363	Power	9/18/98
WAPA-77	Central Valley Project	Power rate decrease	3/4/97	CV-F9	10/2/01	(\$31,089) - 1998	Power	9/29/97
		Transmission rate increase	3/4/97	CV-F9		(\$42,176) - 1999		
			3/4/97	CV-F9		(\$42,176) - 2000		
			3/4/97	CV-F9		(\$47,351) - 2001		
			3/4/97	CV-F9		(\$36,863) - 2002		
			3/4/97	CV-FT3		\$1,140 - all years	Transmission	
			3/4/97	CV-NFT3			Nonfirm transmission	
			3/4/97	CV-SPR1			Spinning reserve service	
			3/4/97	CV-SUR1			Supplemental reserve service	
			3/4/97	CV-RFS1			Regulation and frequency response service	
			3/5/01	CV-EID1			Energy imbalance service	
			3/4/97	CV-PSS1			Power scheduling service	
			3/4/97	CV-NWT1			Network transmission	

NOTES: FERC approval was given 1/8/98. Revenue from nonfirm transmission and all ancillary services was not projected in the rate case as these are sold on an "as available" basis only.

WAPA-85	Amistad/Falcon	Extension	N/A	N/A	6/8/99	N/A	Rate formula extension	5/7/99
WAPA-68	Parker-Davis	Decrease	3/21/95	PD-5	10/1/95	(\$6,222)	Power	9/29/95
		Increase	3/21/95	PD-FT5	10/1/95	\$1,791	Transmission	9/29/95
		Increase	3/21/95	PD-NFT5	10/1/95	\$96	Nonfirm transmission	9/29/95
		Increase	3/21/95	PD-FCT5	10/1/95	\$200	Transmission	9/29/95
WAPA-76	Intertie	Increase	4/3/98	INT-FT3	1/1/99	\$5,691	Transmission	1/27/99
WAPA-84	Intertie	Rate methodology	6/19/98	Various	4/1/99		Transmission	4/1/99

Summary of Current Wholesale Rate Schedule Provisions

Monthly rate

Project	Rate schedule designation	Capacity charge \$/kW of billing demand	Energy charge not in excess of delivery obligations (mills/kWh)	Effective date	Annual composite rate
Boulder Canyon Project	BCP-F5	1.01	4.86	10/2/98	9.43
Central Valley Project	CV-F9	4.37	10.06 mills/kWh; AERA 3.57 mills/kWh	10/1/97	19.31 mills/kWh
Loveland Area Projects	L-F4 (2nd Step)	2.85	10.85 mills/kWh	10/1/94	21.70 mills/kWh
Parker-Davis Project	PD-F6	0.56	1.29 mills/kWh	11/1/97	2.57 mills/kWh
Pick-Sloan Missouri Basin Program—Eastern Division	P-SED-F6	3.20	8.32 mills/kWh for all energy 3.38 mills/kWh for all energy above 60% load factor	10/1/94	14.23 mills/kWh
Salt Lake City Area/Integrated Projects	SLIP-F6	3.44	8.10 mills/kWh	4/1/98	17.57 mills/kWh
Washoe	SNF-4	None	Floor: 19 mills/kWh Ceiling: 80 mills/kWh	10/1/95	

Marketing Plan Summary

Project	Expiration date	Project	Expiration date
Boulder Canyon	Sept. 30, 2017	Pick-Sloan Missouri Basin Program— Eastern Division	Dec. 31, 2020
Central Valley	Dec. 31, 2004	Provo River	Sept. 30, 2008
Falcon-Amistad	June 8, 2033	Salt Lake City Area/Integrated Projects	Sept. 30, 2024
Loveland Area Projects	Sept. 30, 2004	Washoe	Dec. 31, 2004
Parker-Davis	Sept. 30, 2008		

Transmission and Ancillary Services Rate Provisions

Project	Rate schedule designation	Rate
Central Valley Project	CV-FT3, Firm Transmission Service CV-SPR1, Spinning Reserve Service CV-SUR1, Supplemental Reserve Service CV-RFS1, Regulation and Frequency Response Service CV-NWT1, Network Transmission Service CV-EID1, Energy Imbalance Service	\$0.51 kW-mo. \$1.35 kW/mo. \$1.27 kW/mo. \$1.48 kW/mo. Load ratio share times 1/12 of annual network transmission revenue requirement. Within deviation band: net deviations at the end of the month are exchanged with like hours of energy, or charged at the CVP firm power rate then in effect. Outside deviation band: positive deviations, no charge; negative on-peak deviations are the greater of 3 times the CVP firm power rate or any additional cost. Negative off-peak deviations are the CVP firm power rate or any additional cost.
Loveland Area Projects	L-NT1, Network Integration Transmission Service (Second Step) L-FPT1, Firm Transmission Service (Second Step) L-NFPT1, Nonfirm Transmission Service (Second Step) L-AS1, Scheduling, System Control and Dispatch Service L-AS2, Reactive Supply and Voltage Control from Generation Sources Service L-AS3, Regulation and Frequency Response Service L-AS4, Energy Imbalance Service L-AS5, Operating Reserve - Spinning Reserve Service L-AS6, Operating Reserve - Supplemental Reserve Service	Load ratio share of 1/12 of the revenue requirement of \$41,167,055 \$2.85/kW-month or \$34.20/kW-year 3.75 mills/kWh (Maximum) \$33.72/schedule/day \$0.108/kW-month \$0.071/kW-month Under delivery outside 5% bandwidth, 100 mills/kWh penalty Over delivery outside 5% bandwidth, 50 percent credit of average nonfirm purchase price for the hour Pass-through cost Pass-through cost
Parker-Davis Project	PD-FT6, Firm Transmission Service PD-FT5, Firm Transmission Service	\$1.08 per kW per month \$11.51 per kW per year (\$0.96 per kW per month)
Pick-Sloan Missouri Basin Program 9/1/98 -4/30/99	Integrated System Network Transmission Rate Integrated System Firm Point-to-Point Rate Integrated System Nonfirm Point-to-Point Rate Regulation and Frequency Response Service Operating Reserve-Spinning Reserve Service Operating Reserve-Supplemental Reserve Service Scheduling, System Control and Dispatch Service Reactive Supply & Voltage Control	Load ratio share of annual revenue requirements of \$95,725,420 \$2.87/KW-Mo 3.93 m/kWh \$0.05/KW-Mo \$0.12/KW-Mo \$0.12/KW-Mo \$46.06/Schedule/Day \$0.07/KW-Mo

Transmission and Ancillary Services Rate Provisions, cont.

Project	Rate schedule designation	Rate		
5/1/99 -4/30/00	Integrated System Network Transmission Rate	Load ratio share of annual revenue requirements of \$102,877,706		
	Integrated System Firm Point-to-Point Rate	\$2.92/KW-Mo		
	Integrated System Nonfirm Point-to-Point Rate	4.00 m/kWh		
	Regulation and Frequency Response Service	\$0.05/KW-Mo		
	Operating Reserve-Spinning Reserve Service	\$0.12/KW-Mo		
	Operating Reserve-Supplemental Reserve Service	\$0.12/KW-Mo		
	Scheduling, System Control and Dispatch Service	\$42.54/Schedule/Day		
	Reactive Supply & Voltage Control	\$0.06/KW-Mo		
AC Intertie	INT-FT3, firm point-to-point transmission; 230/345 kV transmission system	\$12 per kW per year (\$1.00 per kW per month) 1/1/99		
	INT-FT3, short-term firm point-to-point transmission; 230/345-kV transmission system	Yearly	\$12.00 per kW	1/2/03
		Monthly	\$1.00 per kW	
		Weekly	\$0.23 per kW	
		Daily	\$0.03 per kW	
		Hourly	\$0.00137 per kWh	
	INT-NTS1, network transmission service	Product of the network customer's load ratio share times 1/12 of the total net annual transmission revenue requirement. 4/2/03		
	DSW SD1, Scheduling, System Control & Dispatch Ancillary Service	\$39.11 - \$66.83/Schedule/day 10/2/03		
	DSW-RS1, Reactive Supply and Voltage Control Ancillary Service	\$0.007/kW-mo 10/2/03		
	DSW-EI1, Energy Imbalance Ancillary Service	100 mills penalty 10/2/03		
	DSW-FR1, Regulation & Frequency Response Ancillary Service	If available, equal to capacity charge if project 10/2/03		
	DSW-SPR1, Spinning & Supplemental Reserve Ancillary Service	None available on long-term basis; market price if available on nonfirm basis; or procurement cost plus 10% admin. charge. 10/2/03		
	DSW-SUR1, Supplemental Reserve Ancillary Service	None available on long-term basis; Market price if available on nonfirm basis; or procurement cost plus 10% admin. charge. 10/2/03		
	Salt Lake City Area/ Integrated Projects	SP-PTP5, Firm Point-to-Point Transmission Service	\$2.18 per kW per month.	
		SP-NFT4, Nonfirm Point-to-Point Transmission Service	Mutually agreed by Western and purchasing entity up to 2.99 mills/kWh.	
SP-SD1, Scheduling System Control & Dispatch		Included in transmission rate. RMR and DSW tariffs apply for nontransmission, accordingly.		
SP-RSI, Reactive & Voltage Control		RMR and DSW tariffs apply, accordingly.		
SP-EI1, Energy Imbalance		Costs + 10%.		
SP-FRI, Regulation & Frequency Response		\$3.44 per kW per month if available—or costs + 10%.		
SP-SSR1, Spinning and Supplemental Reserves	Costs + 10%. Firm power rate if available.			

1 BOULDER CANYON PROJECT

Hoover Dam, the highest and third largest concrete dam in the United States, sits on the Colorado River along the Arizona-Nevada border. Lake Mead, the reservoir formed behind Hoover Dam, is still the nation's largest man-made reservoir. The reservoir can hold a two-year supply of the average flow of the Colorado River with its storage capacity of 27.38 million acre-feet.

This enormous project began with 1928 legislation approving construction of the Boulder Canyon Project. Hoover Powerplant has 19 generating units (two for plant use) and an installed capacity of 2,078,800 kW (4,800 kW for plant use). High-voltage transmission lines and substations make it possible for people from Las Vegas, Phoenix and Los Angeles to receive power from the project.

Since the start of commercial power generation in 1936, Hoover, with yearly average generation of 4.2 billion kWh, has served the annual electrical needs of nearly 8 million people. This power is marketed under the Hoover Power Plant Act of 1984 and the 1984 Conformed General Consolidated Power Marketing Criteria and Regulations for Boulder City Area Projects. Western's Desert Southwest Customer Service Region markets and transmits Boulder Canyon power.

The Hoover Power Plant Act of 1984 sets forth the amounts of Hoover power to be sold to customers after June 1, 1987. The marketing criteria have been amended to reflect the provisions of this Act.

Power from the Boulder Canyon Project is marketed as long-term contingent capacity with associated firm energy. This contingent capacity and associated firm energy are available as long as, among other restrictions, sufficient water in the reservoir allows Western to meet its power delivery obligations. If sufficient power to support the customer capacity entitlements is not available, each customer's capacity entitlement is temporarily reduced. Customers are entitled to receive 4.527 billion kWh of firm energy (associated with contingent capacity) each year. If generation at Hoover Powerplant is insufficient, Western can purchase energy to make up the shortfall at the request of individual customers on a pass-through cost basis.

The Boulder Canyon Project obligation to provide power is limited to the available output of Hoover Powerplant. Consequently, power purchases are not needed to meet contractual obligations for the firm energy associated with contingent capacity. However, power purchases are made for those customers requesting firm energy.

Project power is sold in three states: Arizona, California and Nevada. About 55 percent of Boulder Canyon Project energy sales revenue came from California customers. Of the Boulder Canyon Project's 15 customers, 11 are municipalities. These municipalities, however, provide only 28 percent of the energy revenue. Four customers accounted for 82 percent of power revenue from the project. These are the Metropolitan Water District of Southern California, Colorado River Commission of Nevada, Arizona Power Authority and Los Angeles Department of Water and Power. Existing power contracts for the Boulder Canyon Project expire on Sept. 30, 2017.

[Continued on next page.](#)

Boulder Canyon Project energy sales revenue increased 12 percent from FY 1998 to FY 1999. Based on the existing rate methodology and customer billing methods instituted in FY 1996, power customers are billed based on annual revenue requirements and their respective percentage of the entitlement, not on actual energy delivered as in previous billing. The FY 1999 revenue requirement was about \$5.3 million more than FY 1998.

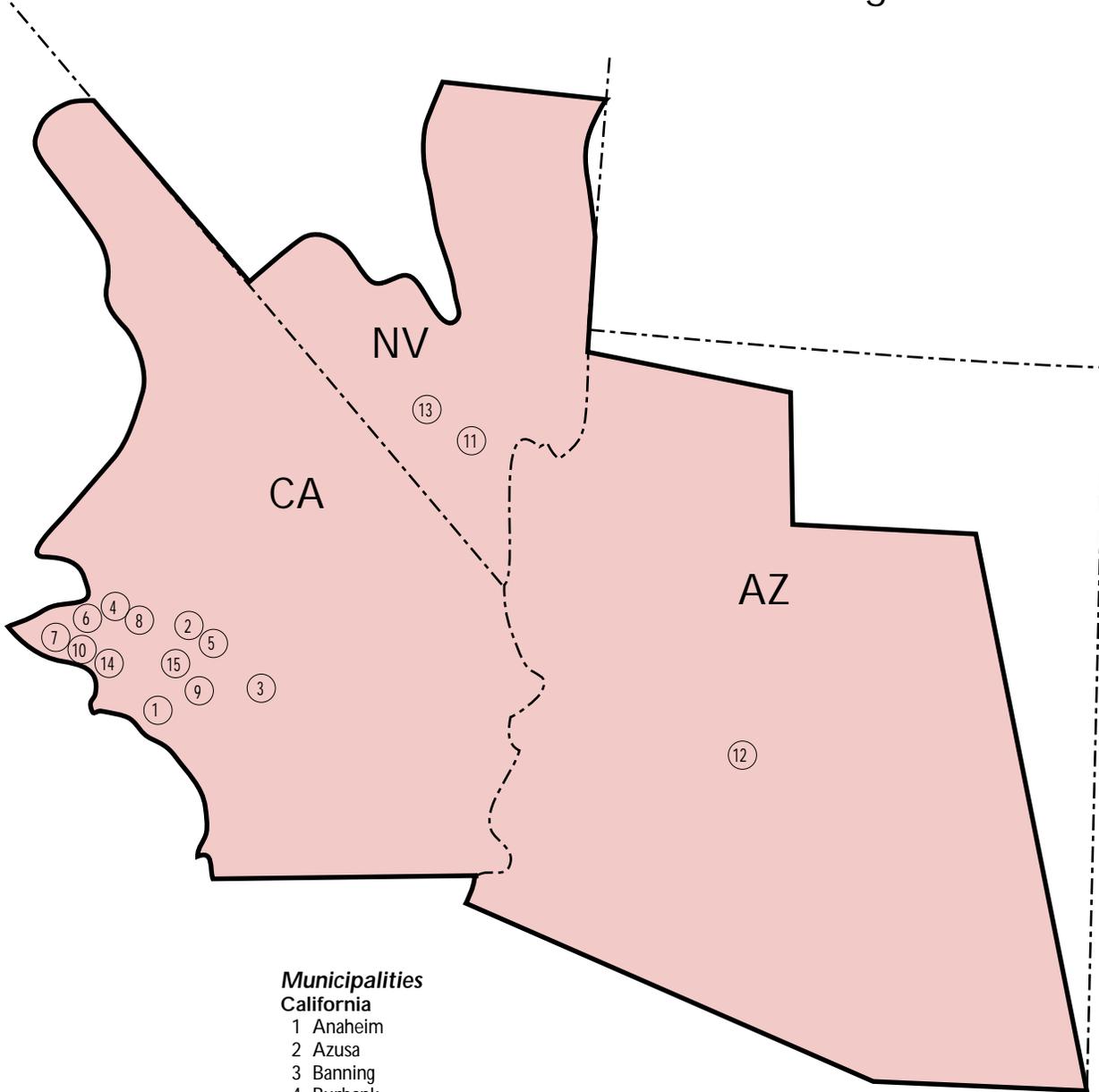
Although net generation from Hoover Powerplant decreased 6 percent from FY 1998, FY 1999 generation still exceeded the long-term average. Boulder Canyon Project is located in the Lower Colorado River Basin. FY 1999 was characterized by near normal hydrologic conditions in the Colorado River Basin, 108 percent of average unregulated flow into Lake Powell (which is upstream of Lake Mead and Hoover Dam), and increased storage in the Upper Colorado reservoirs. The timing of FY 1999 generation was affected by downstream water orders, variable precipitation patterns and by release and fill patterns in Upper Colorado River Basin reservoirs.

Increased water releases due to flood control operations resulted in more than 1 billion kWh of Schedule C energy being delivered during FY 1999. This energy was delivered to Boulder Canyon customers according to contract requirements.

Storage in Lake Mead at the end of FY 1999 was 24.6 million acre-feet, which is 90 percent of capacity (95 percent of conservation capacity). Space-building releases for flood control purposes led to this half million acre-feet reduction in storage compared to FY 1998.

BOULDER CANYON PROJECT

Firm Power Customers and Marketing Area



Municipalities

California

- 1 Anaheim
- 2 Azusa
- 3 Banning
- 4 Burbank
- 5 Colton
- 6 Glendale
- 7 Los Angeles
Dept. of Water and Power
- 8 Pasadena
- 9 Riverside
- 10 Vernon

Nevada

- 11 Boulder City

State agencies

- 12 Arizona Power Authority
- 13 Colorado River Commission of Nevada
- 14 Metropolitan Water District of So. California

Investor-owned utilities

- 15 Southern California Edison Co.

Energy Resource and Disposition

	(GWh)	
	FY 1999	FY 1998
Energy resource		
Net generation	5,507	5,845
Total energy resources	5,507	5,845
Energy disposition		
Sales of electric energy ¹		
Western sales	5,182	5,698
Total energy sales	5,182	5,698
Total energy delivered	5,182	5,698
System and contractual losses	325	147
Total energy disposition	5,507	5,845

¹ Based on 1999 Final Master Schedule (June 22, 1998) Energy Entitlement Projection and Power Repayment Study

Facilities and Substations

Facility	FY 1999	FY 1998
Substations		
Number of substations	3	3
Number of transformers	9	9
Transformer capacity (kVa)	1,798,999	1,798,999
Land		
Acres	3	3
Hectares	1	1

Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capacity FY 1999 (MW)	Actual operating capability (MW)		Net generation (GWh) ¹	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Arizona-Nevada									
Hoover	Reclamation	Colorado	Sep 36	17 ²	2,074 ²	2,074	1,914	5,507	5,845
Boulder Canyon Total				17	2,074	2,074	1,914	5,507	5,845

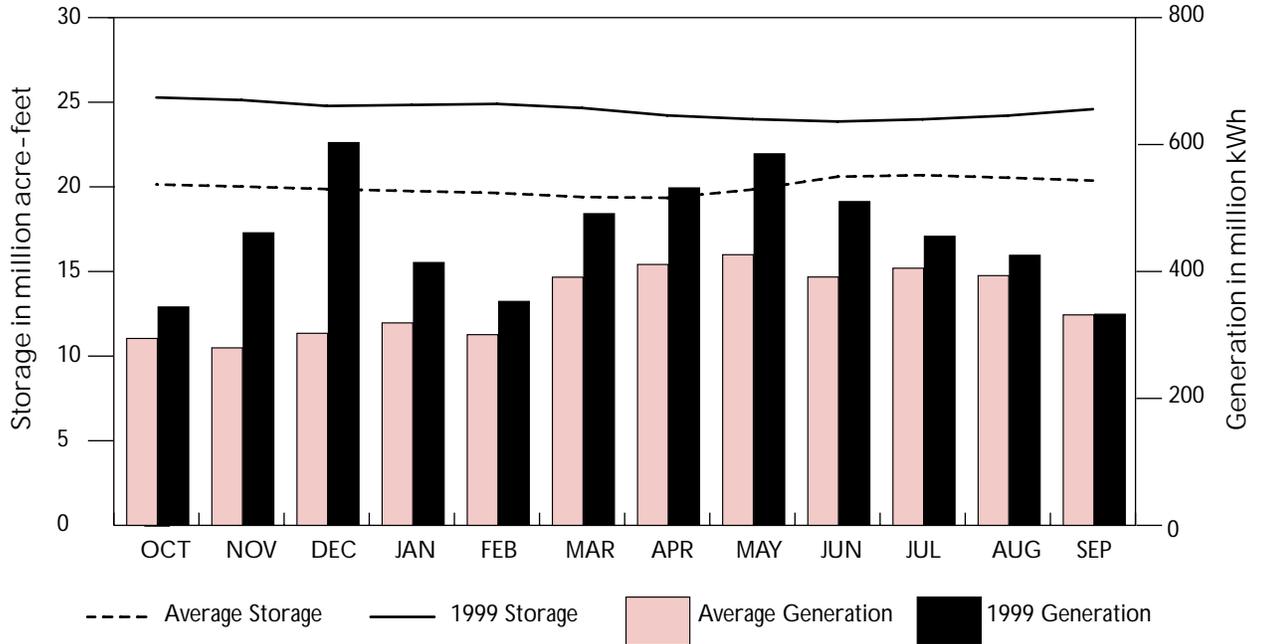
¹ Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

² Excludes 4.8 MW reserved for plant use and two generation units for station service.

Transmission Lines

Voltage Rating	Nevada		Totals	
	FY 1999	FY 1998	FY 1999	FY 1998
230-kV				
Circuit miles	57.35	57.35	57.35	57.35
Circuit kilometers	92.28	92.28	92.28	92.28
Area				
Acres	1,135.88	1,135.88	1,135.88	1,135.88
Hectares	459.87	459.87	459.87	459.87
69-kV				
Circuit miles			0.00	0.00
Circuit kilometers	0.00	0.00	0.00	0.00
Area				
Acres	32.17	32.17	32.17	32.17
Hectares	13.02	13.02	13.02	13.02
Totals				
Circuit miles	57.35	57.35	57.35	57.35
Circuit kilometers	92.28	92.28	92.28	92.28
Acres	1,168.05	1,168.05	1,168.05	1,168.05
Hectares	472.90	472.90	472.90	472.90

Storage and Generation



Firm Power Rate Provisions

Fiscal year	Rate schedule designation	Capacity charge (\$/kW of billing demand)	Energy charge not in excess of delivery obligations	Effective date	Annual composite rate
1999	BCP-F5	\$1.01	4.86	10/1/98	9.43

Rate Actions Summary

Rate order no.	Project	Type of rate action	Date of notice of public participation	Rate schedule designation	Incremental changes to the annual revenue requirements \$(000)	Notes	Date submitted to FERC
WAPA-70	Boulder Canyon	Increase	4/21/98	BCP-F5	5,363	Generation	9/18/98

Marketing Plan Summary

Project	Expiration date
Boulder Canyon	September 30, 2017

Firm and Nonfirm Sales by Customer Category

Type of customer	FY 1999			FY 1998		
	Firm	Nonfirm ¹	Total	Firm	Nonfirm ¹	Total
Municipalities						
Energy sales - (MWh)	1,139,989	0	1,139,989	1,198,856	0	1,198,856
Revenue - (\$)	14,089,437	(505,131)	13,584,306	12,533,915	(629,136)	11,904,779
State agencies						
Energy sales - (MWh)	3,765,990	0	3,765,990	4,197,565	0	4,197,565
Revenue - (\$)	29,995,217	572,315	30,567,532	26,718,588	758,912	27,477,500
Investor-owned utilities ²						
Energy sales - MWh	276,085	0	276,085	301,434	0	301,434
Revenue - (\$)	4,757,471	(42,262)	4,715,209	4,227,580	(129,776)	4,097,804
Total ²						
Energy sales - (MWh)	5,182,064	0	5,182,064	5,697,855	0	5,697,855
Revenue - (\$)	48,842,125	24,922	48,867,047	43,480,083	0	43,480,083

¹ The Boulder Canyon Project had excess energy that was delivered to Arizona Power Authority and the Colorado River Commission under Schedule C, First Priority. All other Boulder Canyon Project customers received less energy by the same amount for the excess for these two customers. The total net amount of excess energy is equal to zero. However, a carry forward credit of \$24,922 occurred due to Boulder City's charges being less than the credit by this amount.

² Southern California Edison has an entitlement to Boulder Canyon Project power.

Firm and Nonfirm Sales by State

State	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Arizona						
Energy sales - MWh	1,209,677	0	1,209,677	1,455,542	0	1,455,542
Power revenues - \$	9,344,510	1,226,539	10,571,049	8,318,148	2,040,123	10,358,270
California						
Energy sales - MWh	2,682,711	0	2,682,711	2,810,321	0	2,810,321
Power revenues - \$	28,351,649	(1,382,608)	26,969,041	25,234,771	(1,522,292)	23,712,479
Nevada						
Energy sales - MWh	1,289,676	0	1,289,676	1,431,992	0	1,431,992
Power revenues - \$	11,145,966	180,992	11,326,958	9,927,164	(517,831)	9,409,334
Total Boulder Canyon ¹						
Energy sales - MWh	5,182,064	0	5,182,064	5,697,855	0	5,697,855
Power revenues - \$	48,842,125	24,922	48,867,047	43,480,083	0	43,480,083

¹ The Boulder Canyon Project had excess energy that was delivered to Arizona Power Authority and the Colorado River Commission under Schedule C, First Priority. All other Boulder Canyon Project customers received less energy by the same amount for the excess for these two customers. The total net amount of excess energy is equal to zero. However, a carry forward credit of \$24,922 occurred due to Boulder City's charges being less than the credit by this amount.

Sales by State and Customer Category

Type of customer	FY 1999		FY 1998	
	Sales (MWh)	Revenue (\$)	Sales (MWh)	Revenue (\$)
Arizona				
State agencies	1,209,677	10,571,049	1,455,542	10,358,270
Total Arizona	1,209,677	10,571,049	1,455,542	10,358,270
California				
Municipalities	1,059,988	12,956,176	1,119,685	11,350,091
State agencies	1,346,638	9,297,656	1,389,202	8,264,585
Investor-owned utilities	276,085	4,715,209	301,434	4,097,804
Total California	2,682,711	26,969,041	2,810,321	23,712,479
Nevada				
Municipalities	80,001	628,131	79,171	554,688
State agencies	1,209,675	10,698,827	1,352,821	8,854,646
Total Nevada	1,289,676	11,326,958	1,431,992	9,409,334
Total Boulder Canyon				
Municipalities	1,139,989	13,584,306	1,198,856	11,904,779
State agencies	3,765,990	30,567,532	4,197,565	27,477,500
Investor-owned utilities	276,085	4,715,209	301,434	4,097,804
Total Boulder Canyon	5,182,064	48,867,047	5,697,856	43,480,083

Top 5 Customers in Firm Energy Sales

Rank	Customer	(MWh)	Percent of total sales
1	Metropolitan Water District of So. Calif.	1,346,638	26
2	Colorado River Commission of Nevada	1,209,676	23
3	Arizona Power Authority	1,209,667	23
4	Los Angeles Dept. of Water and Power	750,748	14
5	Southern California Edison Co	276,085	5
Total		4,792,814	92

Top 5 Customers in Firm Power Revenue

Rank	Customer	(\$)	Percent of total revenue
1	Colorado River Commission of Nevada	10,458,211	21
2	Metropolitan Water District of So. Calif.	10,192,496	21
3	Los Angeles Dept. of Water and Power	9,834,177	20
4	Arizona Power Authority	9,344,510	19
5	Southern California Edison Co	4,757,471	10
Total		44,586,865	91

Customers by State and Customer Category

State/Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Arizona								
State agencies	1	0	0	1	1	0	0	1
California								
Municipalities	10	0	0	10	10	0	0	10
State agencies	1	0	0	1	1	0	0	1
Investor-owned utilities	1	0	0	1	1	0	0	1
Nevada								
Municipalities	1	0	0	1	1	0	0	1
State agencies	1	0	0	1	1	0	0	1
Total	15	0	0	15	15	0	0	15
Summary by state								
Arizona	1	0	0	1	1	0	0	1
California	12	0	0	12	12	0	0	12
Nevada	2	0	0	2	2	0	0	2
Total	15	0	0	15	15	0	0	15
Summary by customer category								
Municipalities	11	0	0	11	11	0	0	11
State agencies	3	0	0	3	3	0	0	3
Investor-owned utilities	1	0	0	1	1	0	0	1
Total	15	0	0	15	15	0	0	15

Power Sales and Revenue

Customer	1999		1998	
	(MWh)	Revenue (\$)	(MWh)	Revenue (\$)
Municipalities				
California				
Anaheim	56,137	754,679	59,759	659,902
Azusa	5,405	74,125	5,770	65,110
Banning	2,190	34,722	2,366	30,413
Burbank	28,695	381,834	30,563	333,780
Colton	4,315	57,014	4,560	49,944
Glendale	75,304	595,697	78,095	525,583
Los Angeles Dept. of Water & Power	750,748	9,532,532	794,323	8,346,715
Pasadena	64,836	547,772	67,530	484,150
Riverside	42,102	565,806	44,830	494,926
Vernon	30,256	411,995	31,889	359,569
Subtotal California	1,059,988	12,956,176	1,119,685	11,350,091
Nevada				
Boulder City	80,001	628,131	79,171	554,688
Subtotal Nevada	80,001	628,131	79,171	554,688
Total municipalities	1,139,989	13,584,306	1,198,856	11,904,779
State agencies				
Arizona				
Arizona Power Authority	1,209,677	10,571,049	1,455,542	10,358,270
Subtotal Arizona	1,209,677	10,571,049	1,455,542	10,358,270
California				
Metropolitan Water District of So. Calif.	1,346,638	9,297,656	1,389,202	8,264,585
Subtotal California	1,346,638	9,297,656	1,389,202	8,264,585
Nevada				
Colorado River Commission of Nevada	1,209,675	10,698,827	1,352,821	8,854,646
Subtotal Nevada	1,209,675	10,698,827	1,352,821	8,854,646
Total state agencies	3,765,990	30,567,532	4,197,565	27,477,500
Investor-owned utilities				
California				
Southern California Edison Co	276,085	4,715,209	301,434	4,097,804
Subtotal California	276,085	4,715,209	301,434	4,097,804
Total investor-owned utilities	276,085	4,715,209	301,434	4,097,804
Boulder Canyon Project total	5,182,064	48,867,047	5,697,855	43,480,083

Boulder Canyon Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999
Revenue:				
Gross Operating Revenue	1,091,108	0	59,859	1,150,967
Income transfers (net)	1,799	0	1,382	3,181
Total Operating Revenue	1,092,907	0	61,241	1,154,148
Expenses:				
O & M and other	512,042	(3,020) ¹	32,859	541,882
Purchase power and other	11,472	0	0	11,472
Interest				
Federally financed	196,720	0	12,313	209,033
Non-Federally financed	112,498	0	8,292	120,790
Total interest	309,219	0	20,605	329,823
Total expense	832,733	(3,020)	53,464	883,177
(Deficit)/surplus revenue	(5,138)		1,127	(4,011)
Investment:				
Federally financed power	369,227	0	3,020	372,247
Non-Federally financed power	169,047	0	0	169,047
Nonpower	25,000	0	0	25,000
Total investment	563,274	0	3,020	566,294
Investment repaid:				
Federally financed power	219,636	3,867 ²	4,682	228,186
Non-Federally financed power	32,935	0	2,611	35,545
Nonpower	141	0	0	141
Total investment repaid	252,712	3,867	7,293	263,872
Investment unpaid:				
Federally financed power	149,591	(3,867)	(1,663)	144,061
Non-Federally financed power	136,112	0	(2,611)	133,502
Nonpower	24,859	0	0	24,859
Total investment unpaid	310,563	(3,867)	(4,274)	302,422
Fund balances:				
Colorado River Dam	11,601	(848)	(644)	10,110
Working capital	1,000	0	0	1,000
Percent of investment repaid to date:				
Federal	59.49%			61.30%
Non-Federal	19.48%			21.03%
Nonpower	0.56%			0.56%

¹ This is an annual adjustment to O&M on the SOR table. Replacements are included as an investment in the financial statements, not as an annual expense, unlike the power repayment study. (FY 1999 replacements = \$3,019,512).

² This is an adjustment for an error made in FY 1998 where replacements were not included as principal payments in the investment repaid section.

1999 CENTRAL VALLEY PROJECT

The Central Valley Project in California's Central Valley has 18 dams that create reservoirs with a total storage capacity of 13 million acre-feet. Two years after the project was authorized in 1937, construction began on 615 miles of canals, five pumping plants and 10 powerplants consisting of 38 hydroelectric generating units. Irrigation aspects of the Central Valley Project cover an area 400 miles long by 45 miles wide comprising almost one-third of California.

The generating units have an installed capacity of 2,031 MW and, after satisfying the project's irrigation pumping, provide the yearly electrical needs for 650,000 people. The Central Valley Project includes 852.26 circuit miles (1,372 km) of high-voltage transmission lines. This does not include 94 miles (151 km) of 500-kV line from Malin Substation (Oregon) to Round Mountain (California). In addition to the CVP lines, Western operates and maintains the California-Oregon Transmission Project, a 350-mile 500-kV line running from Captain Jack Substation near Malin to Tesla (California). We have transmission capacity rights to 11.1 percent of the COTP, which has a rated capability of 1,600 MW. Western also has an entitlement to 400 MW of capacity on the northern segment of the Pacific Northwest-Southwest Intertie.

In FY 1999, the inflow to the four major CVP reservoirs (Trinity, Folsom, New Melones and Shasta) was 13.4 million acre-feet, about 124 percent of the long-term average of 10.8 million acre-feet. As of Sept. 30, 1999, the combined storage of these four facilities was 7.8 million acre-feet or one-half million acre-feet below last year at this time. Net generation totaled 6.5 billion kWh, which is approximately 147 percent of the preceding 13-year average.

Allocations made through power marketing plans for the Central Valley Project govern power sales. All of these power contracts terminate by Dec. 31, 2004. Current agreements call for Western to furnish customers up to a simultaneous peak of 1,152 MW with the associated energy based on each customer's system load factor. Western purchases additional power to supplement Central Valley Project generation to meet these contractual obligations.

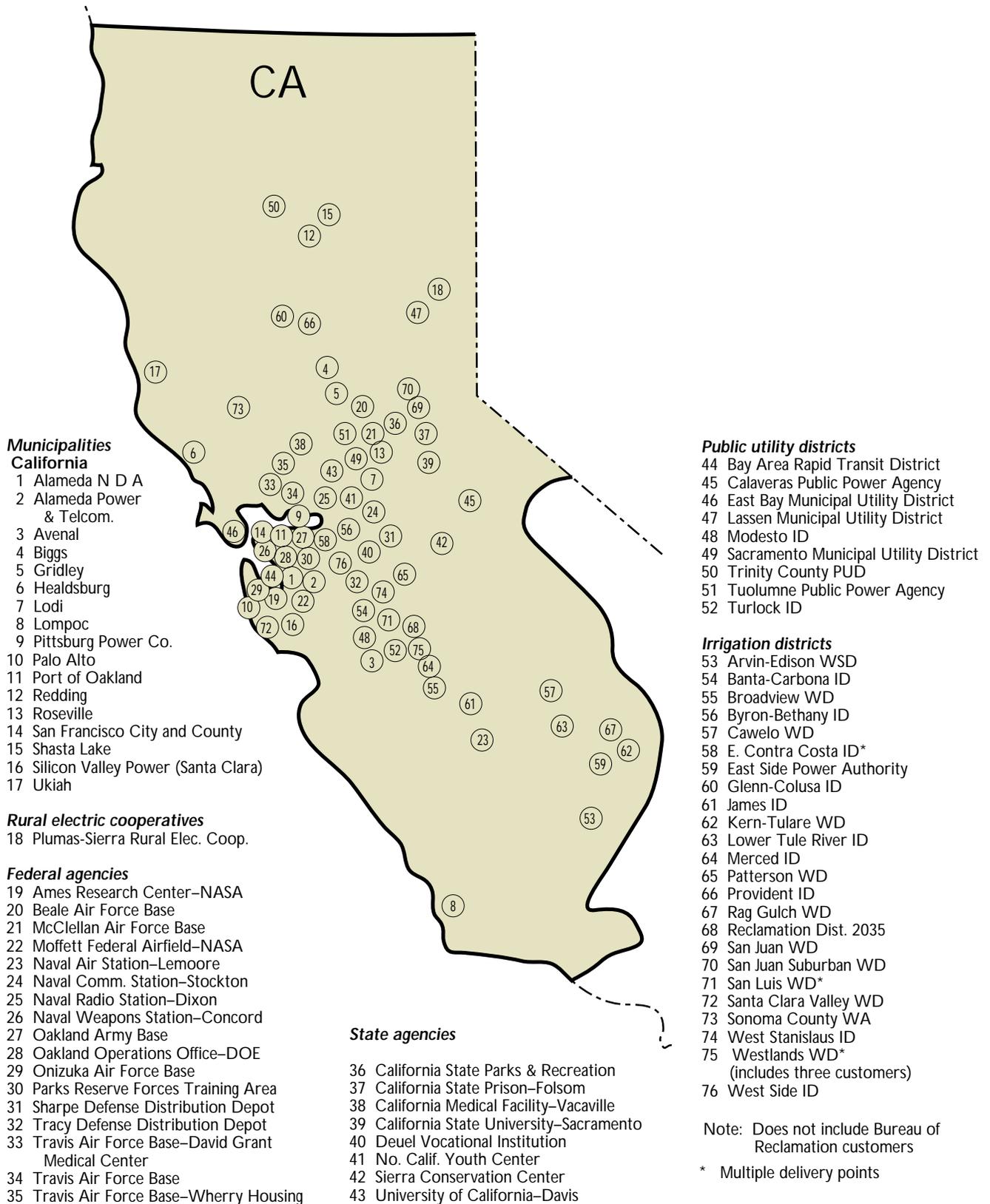
Western's requirements to support generation through power purchases decreased slightly, from 3.9 billion kWh in FY 1998 to 3.4 billion kWh in FY 1999.

Firm power sales totaled 8 billion kWh and \$140.9 million, not including project use or sales to Energy Account No. 2 with Pacific Gas and Electric Company. These sales were made to: municipalities (44.7 percent), public utility districts (32.6 percent), Federal (15.7 percent) and others (7 percent). About 66 percent of all the Central Valley Project's power in FY 1999 was sold to five customers: Sacramento Municipal Utility District, the Bay Area cities of Palo Alto and Santa Clara (Silicon Valley Power) and the cities of Redding and Roseville.

The commercial firm power rates contained in Rate Schedule CV-F9 were approved by the Federal Energy Regulatory Commission on Jan. 8, 1998. The FY 1999 resulting composite rate under Rate Schedule CV-F9 of 19.31 mills/kWh is about 8 percent lower than the rates in effect during the previous fiscal year. Due to our continued efforts to reduce costs, further rate decreases are planned in future years.

CENTRAL VALLEY PROJECT

Firm Power Customers and Marketing Area



Energy Resource and Disposition

	(GWh)			(GWh)	
	FY 1999	FY 1998		FY 1999	FY 1998
Energy resource			Energy disposition		
Net generation ¹	6,289	6,694	Sales of electric energy		
Purchases			Western sales	8,415	9,025
Non-Western ²	3,382	3,911	Project use (Bureau of Reclamation)	1,288	1,392
Total purchases	3,382	3,911	Total energy sales	9,703	10,417
Total energy resources	9,671	10,605	Total energy delivered	9,703	10,417
			System and contractual losses	(32)	188
			Total energy disposition	9,671	10,605

¹ Reduced by Gianelli and O'Neill generation (204 GWh), which is off-set against project use sales.

² Estimated as of 01/04/2000 for FY 1999.

Transmission Lines

Voltage rating	California		Totals	
	FY 1999	FY 1998	FY 1999	FY 1998
230-kV				
Circuit miles	802.84	802.84	802.84	802.84
Circuit kilometers	1,291.77	1,291.77	1,291.77	1,291.77
Acres	12,034.06	12,615.68	12,034.06	12,615.68
Hectares	4,872.10	5,107.57	4,872.10	5,107.57
115-kV				
Circuit miles	7.37	7.37	7.37	7.37
Circuit kilometers	11.86	11.86	11.86	11.86
69-kV and below				
Circuit miles	42.05	42.05	42.05	42.05
Circuit kilometers	67.66	67.66	67.66	67.66
Acres	178.14	172.57	178.14	172.57
Hectares	72.12	69.87	72.12	69.87
Totals				
Circuit miles	852.26	852.26	852.26	852.26
Circuit kilometers	1,371.29	1,371.29	1,371.29	1,371.29
Acres	12,212.20	12,788.25	12,212.20	12,788.25
Hectares	4,944.22	5,177.44	4,944.22	5,177.44

Facilities and Substations

Facility	FY 1999	FY 1998
Substations		
Number of substations	15	15
Number of transformers	16	16
Transformer capacity (kVA)	2,162,216.00	2,162,216.00
Land (fee)		
Acres	330.32	330.32
Hectares	133.73	133.73
Land (easement)		
Acres	0.52	0.52
Hectares	0.21	0.21
Buildings and communications sites		
Number of buildings	27	27
Number of communication sites	16	16
Land (easement)		
Acres	2.06	2.06
Hectares	0.83	0.83

Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability FY 1999 (MW)	Actual operating capability (MW)		Net generation (GWh) ¹	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
California									
J.F. Carr	Reclamation	Clear Creek Tun.	May 63	2	154	140	85	563	451
Folsom	Reclamation	American	May 55	3	215	165	127	727	906
Keswick	Reclamation	Sacramento	Oct 49	3	105	33	85	518	522
New Melones	Reclamation	Stanislaus	Jun 79	2	383	370	365	729	684
Nimbus	Reclamation	American	May 55	2	14	11	12	114	88
O'Neill	Reclamation	San Luis Creek	Nov 67	6	29	0	0	5	5
Shasta	Reclamation	Sacramento	Jun 44	7	588	588	505	2,466	2,618
Spring Creek	Reclamation	Spring Creek Tun.	Jan 64	2	200	180	166	598	763
Trinity	Reclamation	Trinity	Feb 64	3	140 ²	130	130	574	664
W.R. Gianelli ³	CDWR	San Luis Creek	Mar 68	8	202 ⁴	170	150	199	106
Central Valley total				38	2,031	1,787	1,625	6,492	6,805

¹ Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

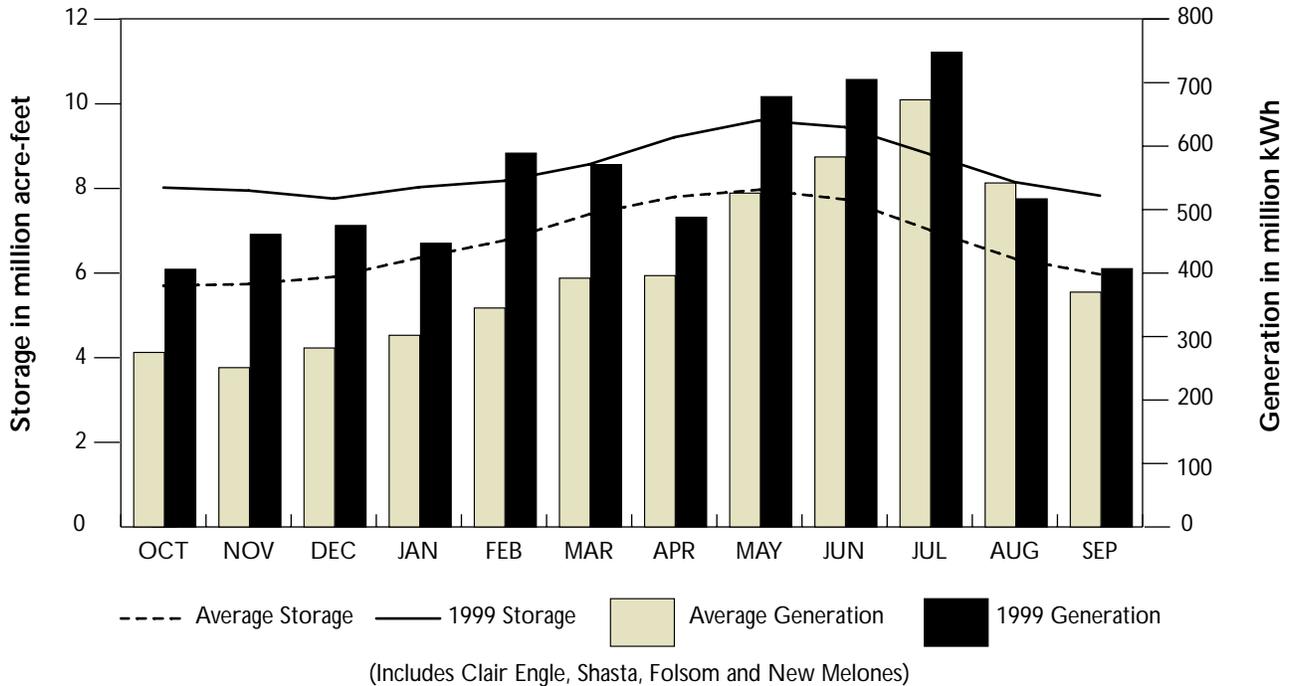
² Includes 0.35 MW at Lewiston.

³ Pump/generating plant; also known as San Luis.

⁴ United States' share of 424 MW capability.

Reclamation - Bureau of Reclamation, Department of the Interior
CDWR - California Department of Water Resources

Storage and Generation



Firm Power Rate Provisions

Monthly Rate

Fiscal year	Rate schedule designation	Capacity charge (\$/kW of billing demand)	Energy charge not in excess of delivery obligations	Effective date	Annual composite rate
1999	CV-F9	\$4.37	10.06 mills/kWh; AERA 3.57 mills/kWh	10/1/97	19.31 mills/kWh

Transmission and Ancillary Services Rate Provisions

Fiscal year	Rate schedule designation	Rate
1999	CV-FT3, Firm transmission service	\$0.51 kW-mo.
	CV-SPR1, Spinning reserve service	\$1.35 kW/mo.
	CV-SUR1, Supplemental reserve service	\$1.27 kW/mo.
	CV-RFS1, Regulation and frequency response service	\$1.48 kW/mo.
	CV-NWT1, Network transmission service	Load ratio share times 1/12 of annual network transmission revenue requirement.
		Within deviation band: net deviations at the end of the month are exchanged with like hours of energy, or charged at the CVP firm power rate then in effect.
		Outside deviation band: positive deviations, no charge; negative on-peak deviations are the greater of 3 times the CVP firm power rate or any additional cost; negative off-peak deviations are the CVP firm power rate or any additional cost.
	CV-EID1, Energy imbalance service	

Rate Actions Summary

Rate order no.	Project	Type of rate action	Date of notice of public participation	Rate schedule designation	Effective date of rate (First day of first full billing period)	Annual incremental \$(000)	Notes	Date submitted to FERC
WAPA-77	Central Valley Project	Power rate decrease	3/4/97	CV-F9	10/1/97	(\$31,089) - 1998	Power rate	9/29/97
		Transmission rate increase	3/4/97	CV-F9		(\$42,176) - 1999		
			3/4/97	CV-F9		(\$42,176) - 2000		
			3/4/97	CV-F9		(\$47,351) - 2001		
			3/4/97	CV-F9		(\$36,863) - 2002		
			3/4/97	CV-FT3		\$1,140 - all years	Transmission rate	
			3/4/97	CV-NFT3			Nonfirm transmission	
			3/4/97	CV-SPR1			Spinning reserve service	
			3/4/97	CV-SUR1			Supplemental reserve service	
			3/4/97	CV-RFS1			Regulation and frequency response service	
			3/4/97	CV-EID1			Energy imbalance service	
			3/4/97	CV-PSS1			Power scheduling service	
			3/4/97	CV-NWT1			Network transmission	

Notes:

FERC approval was given 1/8/98.

Marketing Plan Summary

Project	Expiration date
Central Valley	Dec. 31, 2004

Firm and Nonfirm Sales by Customer Category

Type of customer	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Municipalities						
Energy sales - MWh	3,581,790	256,434	3,838,224	2,895,583	663,733	3,559,316
Revenue - \$	56,679,787	5,627,678	62,307,465	52,951,973	11,522,734	64,474,707
Cooperatives						
Energy sales - MWh	85,005	900	85,905	74,750	0	74,750
Revenue - \$	1,285,833	17,436	1,303,270	1,373,417	0	1,373,417
Federal agencies						
Energy sales - MWh	1,254,394	0	1,254,394	1,131,848	1,124	1,132,972
Revenue - \$	22,288,030	0	22,288,030	24,034,867	23,722	24,058,589
State agencies						
Energy sales - MWh	203,159	0	203,159	199,683	0	199,683
Revenue - \$	4,311,331	0	4,311,331	4,065,424	0	4,065,424
Public utility districts						
Energy sales - MWh	2,599,031	96,521	2,695,552	2,464,844	295,562	2,760,406
Revenue - \$	49,452,024	3,544,446	52,996,469	50,844,006	5,629,266	56,473,272
Irrigation districts						
Energy sales - MWh	280,043	337	280,380	217,461	0	217,461
Revenue - \$	5,769,659	15,235	5,784,893	4,919,271	0	4,919,271
Investor-owned utilities						
Energy sales - MWh	57,279	0	57,279	0	1,080,444	1,080,444
Revenue - \$	1,081,338	0	1,081,338	0	14,493,867	14,493,867
Total ¹						
Energy sales - MWh	8,060,701	354,192	8,414,893	6,984,169	2,040,863	9,025,032
Revenue - \$	140,868,001	9,204,794	150,072,795	138,188,957	31,669,589	169,858,546

¹ Excludes energy sales and power revenues to interdepartmental and Bureau of Reclamation customers, because these power rates are not based on firm or nonfirm power rates.

Firm and Nonfirm Sales by State

Type of customer	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
California						
Energy sales - MWh	8,060,701	354,192	8,414,893	6,984,169	2,040,863	9,025,032
Power revenues - \$	140,868,001	9,204,794	150,072,795	138,188,957	31,669,589	169,858,546
Total						
Energy sales - MWh	8,060,701	354,192	8,414,893	6,984,169	2,040,863	9,025,032
Power revenues - \$	140,868,001	9,204,794	150,072,795	138,188,957	31,669,589	169,858,546

Sales by State and Customer Category

State/Type of customer	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
California				
Municipalities	3,838,224	62,307,465	3,559,316	64,474,707
Cooperatives	85,905	1,303,270	74,750	1,373,417
Federal agencies	1,254,394	22,288,030	1,132,972	24,058,589
State agencies	203,159	4,311,331	199,683	4,065,424
Public utility districts	2,695,552	52,996,469	2,760,406	56,473,272
Irrigation districts	280,380	5,784,893	217,461	4,919,271
Investor-owned utilities	57,279	1,081,338	1,080,444	21,617,888
Total California	8,414,893	150,072,795	9,025,032	176,982,567
Project use sales	1,288,322	8,700,000	1,392,307	13,091,865
Total	9,703,215	158,772,795	10,417,339	190,074,432

Top 5 Customers in Firm Energy Sales

Rank	Customer	(MWh)	Percent of firm sales
1	Sacramento Municipal Utility District	2,055,785	26
2	Silicon Valley Power (Santa Clara)	1,495,997	19
3	Palo Alto, Calif.	698,645	9
4	Redding, Calif.	535,848	7
5	Roseville, Calif.	527,494	7
Total		5,313,769	66

Table only includes those sales to customers with firm Contract Rates of Delivery.

Top 5 Customers in Firm Power Revenue

Rank	Customer	(\$)	Percent of firm revenue
1	Sacramento Municipal Utility District	36,815,237	26
2	Silicon Valley Power (Santa Clara)	22,193,722	16
3	Palo Alto, Calif.	11,335,000	8
4	Redding, Calif.	8,894,171	6
5	Roseville, Calif.	8,804,491	6
Total		88,042,621	63

Table only includes those sales to customers with firm Contract Rates of Delivery.

Top 5 Customers in Nonfirm Energy Sales

Rank	Customer	(MWh)	Percent of nonfirm sales
1	Sacramento Municipal Utility District	85,914	24
2	Roseville, Calif.	59,552	17
3	Redding, Calif.	51,944	15
4	Silicon Valley Power (Santa Clara)	42,516	12
5	Palo Alto, Calif.	33,669	10
Total		273,595	77

Top 5 Customers in Nonfirm Power Revenue

Rank	Customer	(\$)	Percent of nonfirm revenue
1	Sacramento Municipal Utility District	3,338,683	36
2	Roseville, Calif.	1,352,937	15
3	Redding, Calif.	1,429,655	16
4	Silicon Valley Power (Santa Clara)	855,588	9
5	Palo Alto, Calif.	662,364	7
Total		7,639,227	83

Sales and percentages are based on individual customer sales and revenues as a ratio of the total energy sales and revenues including project use sales.

Purchased Power

Supplier	FY 1999		FY 1998	
	Energy (MWh)	Costs (\$ 000)	Energy (MWh)	Costs (\$ 000)
Non-Western suppliers				
Bonneville Power Administration	0	0	23,677	401
California Department of Water Resources	840	18	34,040	575
Citizens Power Sales	189,690	5,124	0	0
Duke Louis Dreyfus	0	0	200	2
Enron Power Marketing, Inc.	307,935	33,323 ¹	135,689	36,863
Modesto Irrigation District	0	0	75	4
Northern California Power Agency	1,495	147	320	54
PacifiCorp	798,695	30,438	1,119,647	44,399
Pacific Gas & Electric Company	2,005,018	30,664	2,032,341	20,612
Portland General Electric	0	0	148,550	8,788
Puget Sound Energy	0	0	400	6
Redding, Calif.	76,060	4,107	375,219	12,315
Sacramento Municipal Utility District	2,167	36	23,453	380
Silicon Valley Power (Santa Clara)	20	1	88	9
Southern Energy Marketing	0	0	8,640	164
U.S. Generation	0	0	2,800	38
Washington Water Power Company	56	1	6,354	107
Total Central Valley Project	3,381,976	103,859 ²	3,911,493	124,717

¹ Includes \$20.4 million payment to Enron to renegotiate and reduce future obligations in existing long-term firm power contract.

² Does not include \$2.4 million recorded on Western's financial statements to account for reconciling the PG&E energy banking account.

Purchased Transmission

Supplier	FY 1999	FY 1998
	Costs (\$000)	Costs (\$000)
Non-Western suppliers		
Bonneville Power Administration	13	0
Shasta Lake, Calif.	0	453
PacifiCorp	1,934	1,605
Pacific Gas and Electric Company	14,038	13,506
Sacramento Municipal Utility District	222	222
Transmission Agency of Northern California	324	2,596
Total Central Valley Project	16,518	18,382

Customers by State and Customer Category

State/Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
California								
Municipalities	6	11	0	17	4	10	0	14
Cooperatives	0	1	0	1	1	0	0	1
Federal agencies	17	0	0	17	19	1	1	21
State agencies	8	0	0	8	8	0	0	8
Public utility districts	6	3	1	10	7	3	1	11
Irrigation district	25	1	0	26	27	0	0	27
Investor-owned utilities	0	0	1	1	0	0	2	2
Total	62	16	2	80	66	14	4	84
Summary by state								
California	63	16	1	80	66	14	4	84
Total	63	16	1	80	66	14	4	84
Summary by customer category								
Municipalities	6	11	0	17	4	10	0	14
Cooperatives	0	1	0	1	1	0	0	1
Federal agencies	17	0	0	17	19	1	1	21
State agencies	8	0	0	8	8	0	0	8
Public utility districts	6	3	1	10	7	3	1	11
Irrigation district	25	1	0	26	27	0	0	27
Investor-owned utilities	0	0	1	1	0	0	2	2
Subtotal	62	16	2	80	66	14	4	84
Project use sales	34	0	0	34	34	0	0	34
Total Western	96	16	2	114	100	14	4	118

Note: In FY 1999, Western sold CVP power to 79 preference customers (col 1+2); 16 of those customers also purchased nonfirm power (col. 2). We sold CVP project use power to 34 customers, for a total of 113 firm power customers. Nonfirm sales were made to two other customers (col. 3), a public utility district and an investor-owned utility.

Transmission Revenue

	FY 1999	FY 1998
Transmission service	Revenue (\$)	Revenue (\$)
Long-term firm point-to-point	6,182,527	0
Total	6,182,527	0

Ancillary Services Revenue

	FY 1999	FY 1998
Ancillary service	Revenue (\$)	Revenue (\$)
Scheduling and dispatch service	212,044	0
Regulation and frequency response	74,244	2,220
Energy imbalance service	7,557	0
Operating reserves—spinning	45,044	34,837
Total	338,889	37,057

Power Sales and Revenue

Customer	Contract rate of delivery	1999		1998	
	Annual (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Municipalities					
California					
Alameda NDA ¹	21,145	6,319	115,254	0	0
Alameda Power & Tel ²	6,000	69,372	1,140,789	101,848	1,592,323
Avenal	622	3,820	70,803	3,607	75,414
Biggs	1,300	4,054	17,120	3,301	59,961
Gridley	4,200	19,314	224,049	15,565	286,717
Healdsburg	3,241	24,990	436,113	39,625	658,758
Lodi	13,236	74,500	1,268,760	143,285	2,316,768
Lompoc	5,197	38,334	660,083	63,901	1,069,842
Port of Oakland ¹	1,000	3,531	71,658	0	0
Palo Alto	171,200	732,314	11,997,364	836,929	15,093,649
Pittsburg Power Company	5,000	15,439	323,850	13,921	313,757
Redding	91,000	587,792	10,323,826	656,309	12,345,982
Roseville	69,000	587,046	10,157,428	456,690	8,154,153
San Francisco City & County ¹	2,600	10,495	204,134	0	0
Silicon Valley Power (Santa Clara)	216,532	1,538,513	23,049,310	1,083,155	19,889,652
Shasta Lake	11,450	67,256	1,314,522	65,339	1,321,127
Ukiah	8,773	55,136	932,401	75,841	1,296,601
Total municipalities		3,838,224	62,307,465	3,559,316	64,474,707
Rural electric cooperatives					
California					
Plumas-Sierra Rural Elec. Coop	17,900	85,905	1,303,270	74,750	1,373,417
Total rural electric cooperatives		85,905	1,303,270	74,750	1,373,417
Federal agencies					
California					
Ames Research Center—NASA	80,000	147,069	5,446,391	145,275	4,346,438
Beale Air Force Base	21,575	116,933	2,198,829	114,582	2,340,888
Bonneville Power Administration	0	0	0	334	3,340
Lawrence Berkeley National Lab—DOE	0	0	0 ³	78,858	1,547,202
Lawrence Livermore National Lab—DOE	0	0	0 ³	11,371	228,703
McClellan Air Force Base	12,000	71,021	1,343,751	70,173	1,447,804
Moffett Federal Airfield—NASA	5,009	27,051	490,252	29,241	575,041
Naval Air Station—Lemore	18,000	78,759	1,470,920	76,093	1,565,970
Naval Comm. Station—Stockton	2,200	8,631	189,660	11,474	283,169
Naval Radio Station—Dixon	915	4,622	83,629	5,069	96,923
Naval Shipyard—Mare Island	0	0	0	0	0
Naval Supply Center—Davis Sub ⁴	0	0	0 ³	31,770	660,736
Naval Weapons Station—Concord	2,698	8,867	177,785	9,557	210,723
Oakland Army Base	2,275	9,097	184,559		
Oakland Operations Office—DOE	77,614	607,985	7,275,780 ³	0	0
Onizuka Air Force Base	4,000	30,339	659,326	26,369	502,849
Parks Reserve Forces Trng Area—Army	500	2,182	41,837	1,925	41,036
Sharpe Defense Distribution Depot	4,000	20,897	408,336	22,019	467,087
Shasta Office—Reclamation	0	0	0	0	0
Site 300—DOE	0	0	0 ³	15,199	298,253
Stanford Linear Accelerator—DOE	0	0	0 ³	363,738	6,928,869
Tracy Defense Distribution Depot	3,800	15,985	352,036	16,124	390,878
Travis AFB—David Grant Medical Center	4,000	22,688	427,646	21,656	454,441
Travis Air Force Base	12,651	75,894	1,406,118	75,551	1,520,744
Travis Wherry Housing—Air Force	1,400	6,374	131,175	6,594	147,497
Total Federal agencies		1,254,394	22,288,030	1,132,972	24,058,589
State agencies					
California					
California State Parks & Recreation	100	203	4,820	180	4,752
California State Prison—Folsom	2,300	13,285	258,506	13,212	279,931
California Medical Facility—Vacaville	1,800	10,736	199,096	10,498	213,372
Calif. State Univ. Sacramento—Nimbus	1,000	80	2,081	70	1,880
Deuel Vocational Institute	1,700	9,854	191,423	9,739	206,614
Northern California Youth Center	2,200	11,726	237,263	11,509	240,203
Sierra Conservation Center	3,000	8,686	158,523	11,191	227,376
University of California—Davis	24,682	148,589	3,259,619	143,284	2,891,296
Total state agencies		203,159	4,311,331	199,683	4,065,424

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery	1999		1998	
	Annual (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Public utility districts					
California					
Bay Area Rapid Transit	4,000	151,708	3,966,521	193,924	4,944,069
Calaveras Public Power Agency	8,000	24,603	542,462	22,911	551,591
Castle Joint Powers Authority	0	0	0 ⁵	16,976	378,053
East Bay MUD	4,965	34,438	807,308	37,499	718,338
Lassen MUD	23,500	137,295	3,709,677	139,038	2,868,103
Modesto ID	10,805	67,956	1,167,166	134,281	2,336,097
Northern Calif. Power Agency	0	0	199	1,520	23,188
Sacramento MUD	361,000	2,141,699	40,153,920	2,026,618	41,047,825
Trinity County PUD	17,000	83,151	1,560,374	81,136	1,647,775
Tuolumne Public Power Agency	8,000	26,388	582,136	25,587	616,528
Turlock ID	3,941	28,314	506,707	80,916	1,341,706
Total public utilities districts		2,695,552	52,996,469	2,760,406	56,473,272
Irrigation districts					
California					
Arvin-Edison WD	30,000	106,122	1,959,564	93,501	1,995,364
Banta-Carbona ID	3,700	9,782	186,462	7,495	159,867
Broadview WD	500	1,070	26,678	722	24,747
Byron-Bethany ID	2,200	3,063	68,763	1,854	49,526
Cawelo WD	3,500	13,569	399,337	10,497	306,724
Delano-Earlimart ID	0	0	0 ⁶	5,669	123,878
East Contra Costa ID	2,500	2,514	53,478	2,217	54,416
East Side Power Authority	4,008	15,665	299,996 ⁶	0	0
Glenn-Colusa ID	3,343	7,803	148,058	4,784	100,180
James ID	987	3,252	69,729	1,022	32,698
Kern-Tulare WD	987	5,506	138,332	6,226	157,116
Lindsay-Strathmore ID	0	0	0 ⁵	5,668	123,851
Lower Tule River ID	1,965	8,908	167,478	2,362	66,765
Merced Irrigation District	8,000	19,123	378,556 ⁶	0	0
Patterson WD	2,000	4,986	99,060	2,754	64,977
Provident ID	750	2,103	40,188	1,772	37,059
Rag Gulch WD	500	2,863	72,784	3,220	80,927
Reclamation District 2035	1,600	2,829	63,410	1,904	48,019
San Juan Suburban WD	1,000	398	10,925	1,133	24,909
San Luis WD-Fittje	3,250	0	199	0	304
San Luis WD-Kaljjan	3,400	23	866	51	1,216
Santa Clara Valley WD	987	5,715	104,860	5,110	102,823
Sonoma County WA	6,000	28,664	747,115	26,386	586,318
Terra-Bella ID	0	0	0 ⁶	5,668	123,848
West Stanislaus ID	5,200	14,382	277,748	9,909	222,247
Westlands WD Assumed Pt. Del.	17,075	16,042	332,120	9,182	224,511
Westlands WD Pumping Plant # 6-1	1,850	2,015	53,510	1,419	37,566
Westlands WD Pumping Plant # 7-1	3,200	16	829	3,196	80,063
West Side ID	2,000	3,967	84,849	3,741	89,353
Total irrigation districts		280,380	5,784,893	217,461	4,919,271
Investor-owned utilities					
California					
Pacific Gas & Electric Co.		57,279	1,081,338	1,080,144	14,488,467
Southern California Edison		0	0	300	5,400
Total investor-owned utilities		57,279	1,081,338	1,080,444	14,493,867
Central Valley Project subtotal		8,414,893	150,072,795	9,025,032	169,858,546
Project use sales		1,288,322	8,700,000 ⁷	1,392,307	13,091,865
Central Valley Project total		9,703,215	158,772,795	10,417,339	182,950,411

Notes: Due to rounding, certain nonfirm sales may reflect revenue without displaying any energy sold.

¹ New customer in FY 1999.

² The Alameda Electric Dept. changed its name to Alameda Power & Telecom in FY 1999.

³ Sales to four DOE labs (LLNL, Site 300, SLAC, Berkeley) were combined into one allocation to DOE's Oakland Operations Office.

⁴ Naval Supply Center Davis Sub is no longer a customer.

⁵ Castle Joint Power Authority merged with Merced Irrigation District in FY 1999.

⁶ Lindsay-Strathmore, Delano and Terra-Bella irrigation districts combined to become Eastside Power Authority in FY 1999.

⁷ This includes estimated FY 1999 sales of \$8.7 million, a reduction of estimated to actual sales for FY 1997 and FY 1998 of \$3,979,838, offset by an increase in revenue for the second of five adjustments required for the FY 1984-1996 prior year estimated to actual true up of \$2,588,104.

Central Valley Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	4,234,223	(675)	182,119 ²	4,415,667
Income transfers (net)	162	0	0	162
Total operating revenue	4,234,385	(675)	182,119	4,415,829
Expenses:				
O & M and other	621,611	0	44,756 ⁴	666,367
Purchase power and other	2,916,276	0	125,867 ⁵	3,042,143
Interest				
Federally financed	342,878	0	1,287	344,165
Total interest	342,878	0	1,287	344,165
Total expense	3,880,765	0	171,910	4,052,675
(Deficit)/surplus revenue	0	(675)	675	0
Investment:				
Federally financed power	558,722	0	(212) ⁶	558,510
Nonpower	65,710	0	0 ⁷	65,710
Total investment	624,432	0	(212)	624,220
Investment repaid:				
Federally financed power	353,620	0	9,534	363,154
Total investment repaid	353,620	0	9,534	363,154
Investment unpaid:				
Federally financed power	205,102	0	(9,746)	195,356
Nonpower	65,710	0	0	65,710
Total investment unpaid	270,812	0	(9,746)	261,066
Percent of investment repaid to date:				
Federal	63.29%			65.02%

¹ Based on the Final 1999 Power Repayment Study.

² Operating revenues are based on preliminary financial statement data. Revenue is adjusted for the FY 1999 Revenue Adjustment Clause of \$674,719.

⁴ O&M and other expenses are based on preliminary financial statement data.

⁵ Purchase power expenses are based on preliminary financial statement data.

⁶ Investments are adjusted for prior year true up of plant in service.

⁷ The nonpower investment, or aid to irrigation, appears in the PRS as in service in the first future year, but it is included here in the historical cumulative FY 1998 Status of Repayment.

1999 LOVELAND AREA PROJECTS

Western's post-1989 power marketing plan operationally and contractually integrated the Fryingpan-Arkansas Project and the Pick-Sloan Missouri Basin Program-Western Division into the Loveland Area Projects for marketing and rate-setting purposes in 1990. Our Rocky Mountain Customer Service Region administers this program. LAP power is marketed to 40 firm power customers in the Rocky Mountain Region's service area. Fifty-three percent of LAP power is sold in Colorado, with the remaining power sold in Kansas, Nebraska and Wyoming. This fiscal year, as a result of open access transmission, short-term LAP power was also marketed to seven customers outside our normal marketing area, in the states of Arizona, California, Montana, Nevada, New Mexico and Oregon. The LAP revenue requirement for the firm power rate is determined by combining Fry-Ark and Western Division revenue requirements. A single LAP rate design is developed using this revenue requirement.

Fry-Ark and Western Division financial and repayment responsibilities remain separate. Pick-Sloan financial statements contain information that reflects costs from both the Eastern and Western divisions and the generating agencies (Bureau of Reclamation and U.S. Army Corps of Engineers). Western Division is allocated a portion of those costs. Fry-Ark financial statements contain only information for Fry-Ark.

Firm power contracts provide for Western to furnish a specific amount of capacity and energy each month for the term of the contract. LAP firm energy is marketed based on the long-term average generation, rather than customer load factors. As a result of implementing the Energy Planning and Management Program in FY 1996, existing customers with long-term firm power contracts were offered resource commitments for an additional 20 years. These contracts remain in effect until September 30, 2024. We will establish a resource pool for new customers effective Oct. 1, 2004. We will also offer additional resources for potential new customers in October 2009 and October 2014.

Contracts provide for us to purchase non-Federal support energy, up to an individual customer's system load factor, at customer request on a pass-through cost basis.

Fryingpan-Arkansas Project

This multipurpose transmountain diversion development is located in south central Colorado. Surplus water is diverted from the Fryingpan River on the west slope of the Rocky Mountains and brought to the east slope to support irrigation, municipal water supplies and electric power generation.

The project has six dams and five reservoirs with total storage of 741,000 acre-feet of water, 70 miles of tunnels and canals and a pumped-storage powerplant at Mt. Elbert. Its two generating units have a capacity of 206 MW. While the majority of project capacity depends on water pumped during off-peak hours and water releases for power production when needed, some generation is attributed to flow-through water.

[Continued on next page.](#)

Authorization for the first 100 MW unit of the powerplant was granted on Aug. 16, 1962. The second unit was authorized on Oct. 27, 1974. Work on these two units was completed in 1984.

Pick-Sloan Missouri Basin Program-Western Division

Both the Eastern and Western divisions have common electrical facilities at Yellowtail Dam in Montana and at a point near Gering, Neb. However, the divisions are separate and distinct systems. Both contribute revenue to repay P-SMBP expenses and investments with different generating resources and separate allocations of firm power and rate structures.

Western Division generating resources include Bureau of Reclamation Missouri River Basin powerplants: Yellowtail, Buffalo Bill, Spirit Mountain, Boysen, Pilot Butte, Glendo, Kortez and Fremont Canyon. They have a total operating capacity of 330 MW from 17 generating units.

The powerplants of Reclamation's Colorado-Big Thompson, Kendrick, Shoshone and North Platte projects have also been integrated with the Western Division for marketing and operation. These projects, with their 20 generating units, have a maximum operating capacity of 328 MW.

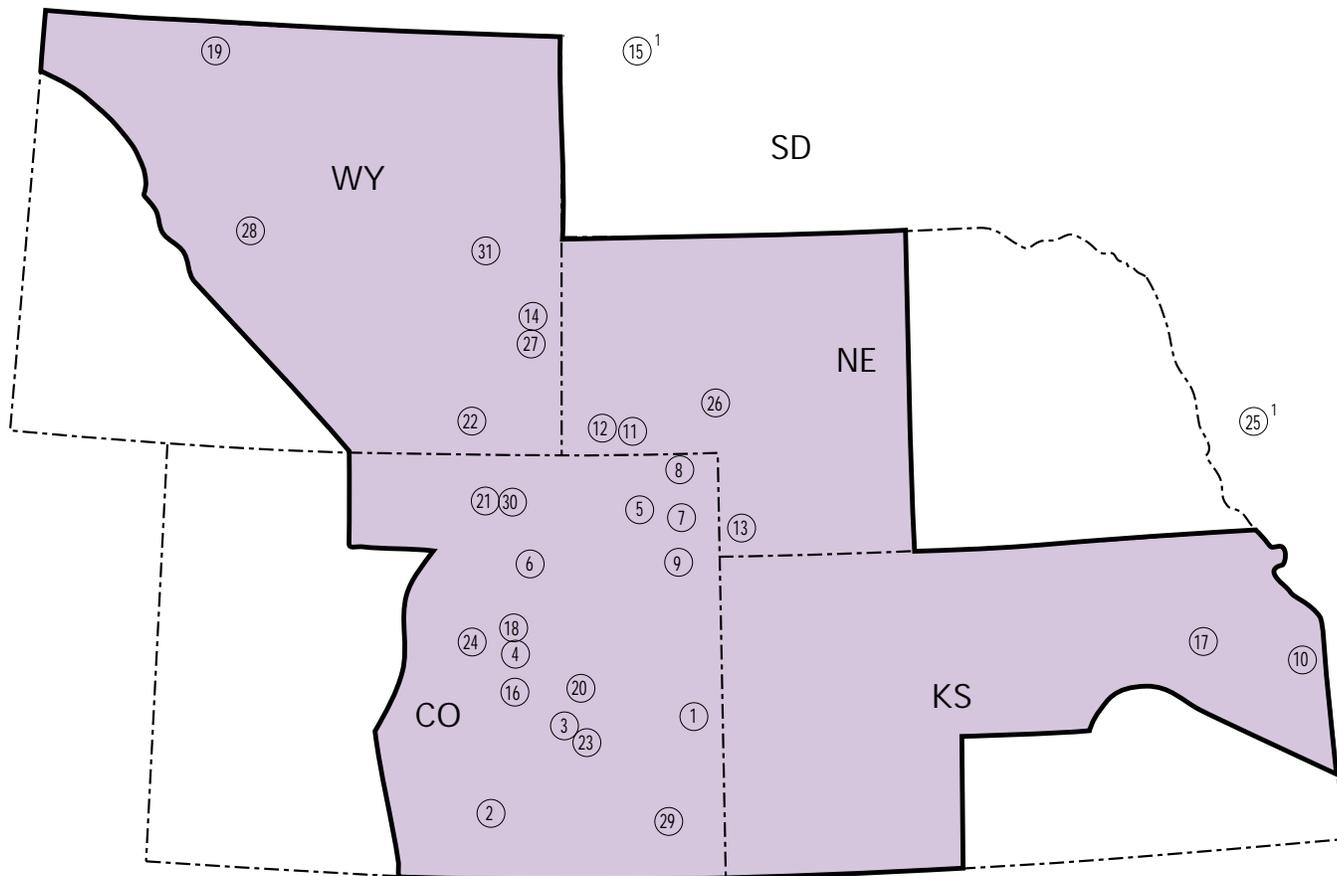
Water deliveries this year to the Colorado-Big Thompson Project were well below average due to above normal precipitation during the irrigation season. The total amount of water diverted from the Colorado River to the Big Thompson system during FY 1999 was only 165,600 acre-feet, due to high carryover storage in Horsetooth Reservoir and Carter Lake. This was only 72 percent of the 1966 to 1995 average diversion of 228,500 acre-feet.

Inflow from the spring snowmelt runoff into the three river basins (Big Thompson, North Platte and Bighorn) during FY 1999 was above average. Consequently, carryover water to be stored in the reservoirs was both above average and more than in the preceding year.

From an operational standpoint, the Loveland Area Projects transmission system was constrained in FY 1999, due to transmission path congestion from north to south and the loss of the Sidney DC Tie for extended periods.

LOVELAND AREA PROJECTS

Firm Power Customers and Marketing Area



Municipalities

Colorado

- 1 Burlington
- 2 Center
- 3 Colorado Springs Utilities
- 4 Denver Water Board
- 5 Fort Morgan
- 6 Frederick
- 7 Holyoke
- 8 Julesburg
- 9 Wray

Kansas

- 10 Kansas Municipal Energy Agency

Nebraska

- 11 Lodgepole
- 12 Sidney
- 13 Wauneta

Wyoming

- 14 Torrington

Rural electric cooperatives

- 15 Basin Electric Power Coop.
- 16 Intermountain REA
- 17 Kansas Elec. Power Coop.
- 18 Tri-State Generation & Transmission
- 19 Willwood Light & Power Co.

Federal agencies

- 20 U.S. Air Force Academy
- 21 Arapahoe and Roosevelt National Forests
- 22 Francis E. Warren Air Force Base
- 23 Peterson Air Force Base
- 24 Rocky Flats-DOE

Public utility districts

- 25 Municipal Energy Agency of Nebraska
- 26 Nebraska Public Power District

Irrigation districts

- 27 Goshen ID
- 28 Midvale ID

State agencies

- 29 Arkansas River Power Authority
- 30 Platte River Power Authority
- 31 Wyoming Municipal Power Agency

Note: Does not include Bureau of Reclamation customers.

¹ All customer loads are delivered within the projects' marketing area, even though a customer's headquarters may not be within it, as shown on this map.

Energy Resources and Disposition

	(GWh)	
	FY 1999	FY 1998
Energy resources		
Net generation	2,596	2,471
Interchange		
Received	89	272
Delivered	181	90
Net	(92)	182
Purchases		
Non-Western	89	54
Western	184	28
Total purchases	273	82
Total energy resources	2,777	2,735
Energy disposition		
Sales of electric energy		
Western sales	2,189	2,192
Project use (Reclamation)	9	9
Total energy sales	2,198	2,201
Other		
Other deliveries/losses	377	344
Total other	377	344
Total energy delivered	2,575	2,545
System and contractual losses	202	190
Total energy disposition	2,777	2,735

Facilities and Substations

Facility	FY 1999	FY 1998
Substations		
Number of substations	78	80
Number of transformers	73	73
Transformer capacity (kVA)	2,244,708	2,208,308
Land (fee)		
Acres	559	559
Hectares	226.32	226.32
Land (easement)		
Acres	184	184
Hectares	74.49	74.49
Buildings and communications sites		
Number of buildings	190	190
Number of communications sites	80	79
Land (fee)		
Acres	59	59
Hectares	23.89	23.89
Land (easement)		
Acres	53	53
Hectares	21.46	21.46

Transmission Lines

	Colorado		Nebraska		Wyoming		Total	
	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998
230-kV								
Circuit miles	64.82	64.82	106.06	106.06	337.20	337.20	508.08	508.08
Circuit kilometers	104.30	104.30	170.65	170.65	542.55	542.55	817.50	817.50
Acres	995.08	1,102.32	1,964.06	2,021.45	5,176.40	6,043.95	8,135.54	9,167.72
Hectares	402.87	446.28	795.17	818.40	2,095.71	2,446.95	3,293.75	3,711.64
138-kV								
Circuit miles	22.05	22.05	0.00	0.00	0.00	0.00	22.05	22.05
Circuit kilometers	35.48	35.48	0.00	0.00	0.00	0.00	35.48	35.48
Acres	282.96	477.14	0.00	0.00	0.00	0.00	282.96	477.14
Hectares	114.56	193.17	0.00	0.00	0.00	0.00	114.56	193.17
115-kV								
Circuit miles	626.35	626.35	407.74	407.74	1,371.71	1,371.71	2,405.80	2,405.80
Circuit kilometers	1,007.80	1,007.80	656.05	656.05	2,207.08	2,207.08	3,870.93	3,870.93
Acres	6,269.48	4,986.09	3,497.94	3,525.49	11,361.54	11,785.02	21,128.96	20,296.60
Hectares	2,538.26	2,018.66	1,416.17	1,427.33	4,599.82	4,771.27	8,554.25	8,217.27
69-kV and below								
Circuit miles	72.68	72.68	75.26	75.26	397.55	397.55	545.49	545.49
Circuit kilometers	116.94	116.94	121.09	121.09	639.66	639.66	877.69	877.69
Acres	603.17	1,114.23	398.59	441.52	3,705.78	4,978.31	4,707.54	6,534.06
Hectares	244.20	451.11	161.37	178.75	1,500.32	2,015.51	1,905.89	2,645.37
Totals								
Circuit miles	785.90	785.90	589.06	589.06	2,106.46	2,106.46	3,481.42	3,481.42
Circuit kilometers	1,264.51	1,264.51	947.80	947.80	3,389.29	3,389.29	5,601.60	5,601.60
Acres	8,150.69	7,679.78	5,860.59	5,988.46	20,243.72	22,807.28	34,255.00	36,475.52
Hectares	3,299.88	3,109.23	2,372.71	2,424.48	8,195.86	9,233.74	13,868.45	14,767.45

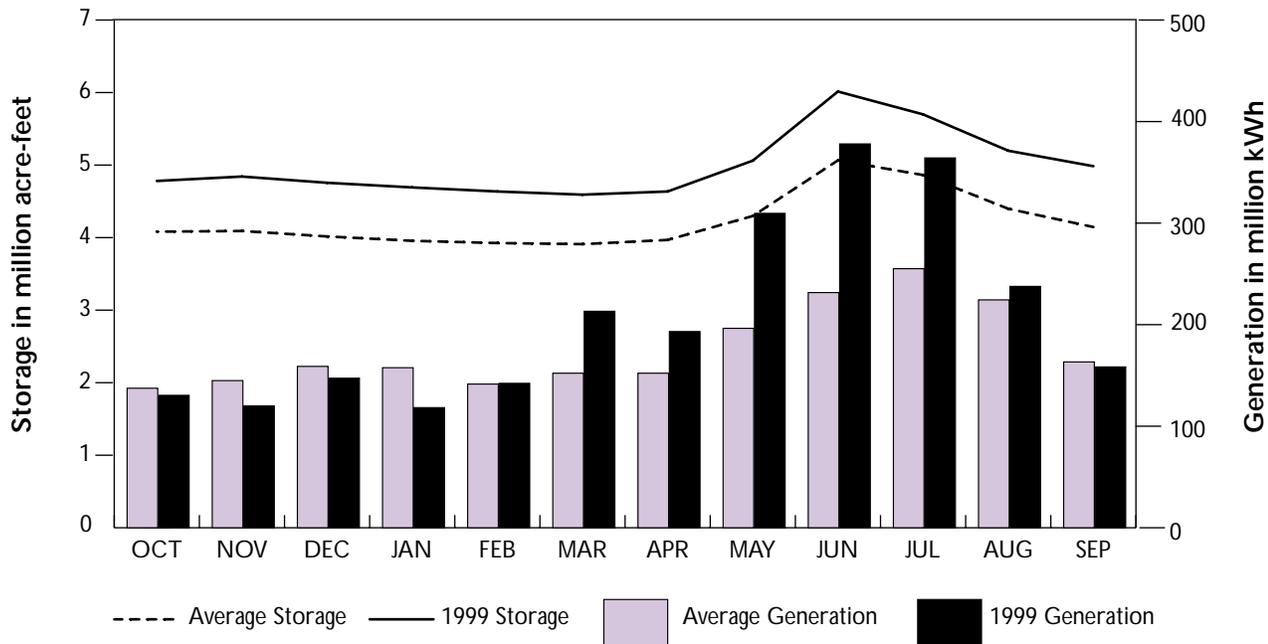
Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability ¹ FY 1999 (MW)	Actual Operating capability (MW)		Net generation (GWh) ²	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Colorado									
Big Thompson	Reclamation	Trans-Mtn. Div.	Apr 59	1	5	5	5	9	7
Estes	Reclamation	Trans-Mtn. Div.	Sep 50	3	51	15	34	72	89
Flatiron ³	Reclamation	Trans-Mtn. Div.	Jan 54	3 ⁴	95	71	86	189	195
Green Mountain	Reclamation	Blue	May 43	2	30	28	0	69	48
Marys Lake	Reclamation	Trans-Mtn. Div.	May 51	1	8	3	8	26	33
Mount Elbert ³	Reclamation	Arkansas	Oct 81	2	206	196	206	267	228
Pole Hill	Reclamation	Trans-Mtn. Div.	Jan 54	1	33	33	34	147	153
Montana									
Yellowtail ⁵	Reclamation	Big Horn	Aug 66	2	144	132	108	654	516
Wyoming									
Alcova	Reclamation	North Platte	Jul 55	2	40	38	36	123	151
Boysen	Reclamation	Wind	Aug 52	2	18	16	17	101	95
Buffalo Bill	Reclamation	Shoshone	May 95	3	18	18	18	108	83
Fremont Canyon	Reclamation	North Platte	Dec 60	2	66	66	66	274	332
Glendo	Reclamation	North Platte	Dec 58	2	38	38	36	130	111
Guernsey	Reclamation	North Platte	Jul 99	2	7	7	7	24	27
Heart Mountain	Reclamation	Shoshone	Dec 48	1	5	5	6	21	17
Kortes	Reclamation	North Platte	Jun 50	3	39	39	39	158	168
Pilot Butte	Reclamation	Wind	Jan 99	2	2	2	2	4	4
Seminole	Reclamation	North Platte	Aug 39	3	51	53	48	179	176
Shoshone	Reclamation	Shoshone	May 95	1	3	3	3	24	23
Spirit Mountain	Reclamation	Shoshone	May 95	1	5	5	5	16	17
Loveland Area Projects Total				39	864	773	764	2,596	2,471

- ¹ Maximum operating capability is the maximum generating capability of the units at unity power factor without exceeding the specified heat rise on each unit and independent of water constraints.
- ² Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.
- ³ Pump/generating plant.
- ⁴ Only unit 3 has pump/generation capability.
- ⁵ Generation from units 1 and 2 is marketed by the Rocky Mountain Region, and from units 3 and 4 by the Upper Great Plains Region. For this table, one-half of the total capability and output is shown under each of these two regions.

Reclamation - Bureau of Reclamation, Department of the Interior

Storage and Generation



Firm Power Rate Provisions

Fiscal year	Rate schedule designation	Monthly rate			Annual composite rate
		Capacity charge (\$/kW of billing demand)	Energy charge not in excess of delivery obligations	Effective date	
1999	L-F4 (2nd Step)	\$2.85	10.85 mills/kWh	10/1/94	21.70 mills/kWh

Transmission and Ancillary Services Rate Provisions

Fiscal year	Rate schedule designation	Rate
1999	L-NT1, Network Integration Transmission Service (Second Step)	Load ratio share of 1/12 of the revenue requirement of \$41,167,055
	L-FPT1, Firm Transmission Service (Second Step)	\$2.85/kW-month or \$34.20/kW-year
	L-NFPT1, Nonfirm Transmission Service (Second Step)	3.75 mills/kWh (Maximum)
	L-AS1, Scheduling, System Control and Dispatch Service	\$33.72/schedule/day
	L-AS2, Reactive Supply and Voltage Control from Generation Sources Service	\$0.108/kW-month
	L-AS3, Regulation and Frequency Response Service	\$0.071/kW-month
	L-AS4, Energy Imbalance Service	Under delivery outside 5% bandwidth, 100 mills/kWh penalty Over delivery outside 5% bandwidth, 50 percent credit of average nonfirm purchase price for the hour
	L-AS5, Operating Reserve - Spinning Reserve Service	Pass-through cost
	L-AS6, Operating Reserve - Supplemental Reserve Service	Pass-through cost

Marketing Plan Summary

<u>Project</u>	<u>Expiration date</u>
Loveland Area Projects	Sept. 30, 2024

Firm and Nonfirm Sales by Customer Category

Type of customer	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Municipalities						
Energy sales - MWh	416,324	450	416,774	395,704	0	395,704
Revenue - \$	8,725,558	9,000	8,734,558	8,501,715	0	8,501,715
Rural Electric Coop.						
Energy sales - MWh	1,268,910	800	1,269,710	1,200,287	143,574	1,343,861
Revenue - \$	27,202,502	10,400	27,212,902	26,527,259	1,148,592	27,675,851
Federal agencies						
Energy sales - MWh	79,007	0	79,007	77,429	0	77,429
Revenue - \$	1,295,092	0	1,295,092	1,278,840	0	1,278,840
State agencies						
Energy sales - MWh	380,799	8,255	389,054	360,327	0	360,327
Revenue - \$	8,166,971	114,893	8,281,864	7,922,825	0	7,922,825
Public utility districts						
Energy sales - MWh	15,079	0	15,079	14,149	0	14,149
Revenue - \$	271,081	0	271,081	260,990	0	260,990
Irrigation districts						
Energy sales - MWh	200	0	200	251	0	251
Revenue - \$	4,452	0	4,452	5,045	0	5,045
Investor-owned utilities						
Energy sales - MWh	0	19,279	19,279	0	0	0
Revenue - \$	0	292,998	292,998	0	0	0
Total ¹						
Energy sales - MWh	2,160,319	28,784	2,189,103	2,048,147	143,574	2,191,721
Revenue - \$	45,665,655	427,290	46,092,946	44,496,675	1,148,592	45,645,267

¹ Excludes energy sales and power revenues to interdepartmental, interproject and project use customers.

Firm and Nonfirm Energy Sales by State

State	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Arizona						
Energy sales - MWh	0	8,370	8,370	0	0	0
Power revenues - \$	0	113,248	113,248	0	0	0
California						
Energy sales - MWh	0	450	450	0	0	0
Power revenues - \$	0	9,000	9,000	0	0	0
Colorado						
Energy sales - MWh	1,146,868	5,250	1,152,119	1,098,419	0	1,098,419
Power revenues - \$	24,177,589	95,398	24,272,986	23,833,653	0	23,833,653
Kansas						
Energy sales - MWh	191,580	0	191,580	186,514	0	186,514
Power revenues - \$	3,536,777	0	3,536,777	3,481,811	0	3,481,811
Montana						
Energy sales - MWh	0	1,740	1,740	0	0	0
Power revenues - \$	0	20,775	20,775	0	0	0
Nebraska						
Energy sales - MWh	376,804	245	377,049	377,724	0	377,724
Power revenues - \$	8,244,959	5,343	8,250,302	8,529,171	0	8,529,171
Nevada						
Energy sales - MWh	0	200	200	0	0	0
Power revenues - \$	0	4,400	4,400	0	0	0
New Mexico						
Energy sales - MWh	0	6,310	6,310	0	0	0
Power revenues - \$	0	89,783	89,783	0	0	0
Oregon						
Energy sales - MWh	0	5,940	5,940	0	0	0
Power revenues - \$	0	84,985	84,985	0	0	0
Wyoming						
Energy sales - MWh	445,066	278	445,345	385,490	143,574	529,064
Power revenues - \$	9,706,331	4,360	9,710,690	8,652,040	1,148,592	9,800,632
Total Loveland Area Projects ¹						
Energy sales - MWh	2,160,319	28,784	2,189,103	2,048,147	143,574	2,191,721
Power revenues - \$	45,665,655	427,290	46,092,946	44,496,675	1,148,592	45,645,267

¹ Excludes energy sales and power revenues to interdepartmental, interproject and project use customers.

Sales by State and Customer Category

State/Type of customer	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Arizona				
State agencies	8,130	110,368	0	0
Investor-owned utilities	240	2,880	0	0
Total Arizona	8,370	113,248	0	0
California				
Municipalities	450	9,000	0	0
Total California	450	9,000	0	0
Colorado				
Municipalities	294,315	6,166,011	277,948	5,988,314
Cooperatives	589,106	12,809,620	568,845	12,775,044
Federal agencies	61,448	991,717	60,599	983,375
State agencies	202,400	4,215,463	191,027	4,086,920
Investor-owned utilities	4,849	90,175	0	0
Project use sales	136	951	58	411
Total Colorado	1,152,255	24,273,937	1,098,477	23,834,064
Kansas				
Municipalities	99,550	2,071,336	96,458	2,037,788
Cooperatives	92,030	1,465,441	90,056	1,444,023
Total Kansas	191,580	3,536,777	186,514	3,481,811
Montana				
Investor-owned utilities	1,740	20,775	0	0
Total Montana	1,740	20,775	0	0
Nebraska				
Municipalities	9,201	227,465	8,723	222,279
Cooperatives	207,023	4,614,056	218,947	5,044,080
Federal agencies	0	0	135,905	3,001,822
State agencies	145,746	3,137,700	0	0
Public utility districts	15,079	271,081	14,149	260,990
Total Nebraska	377,049	8,250,302	377,724	8,529,171
Nevada				
Investor-owned utilities	200	4,400	0	0
Total Nevada	200	4,400	0	0
New Mexico				
Investor-owned utilities	6,310	89,783	0	0
Total New Mexico	6,310	89,783	0	0
Oregon				
Investor-owned utilities	5,940	84,985	0	0
Total Oregon	5,940	84,985	0	0
Wyoming				
Municipalities	13,258	260,745	12,575	253,334
Cooperatives	381,551	8,323,785	466,013	8,412,704
Federal agencies	17,559	303,375	16,830	295,465
State agencies	32,777	818,333	33,395	834,083
Irrigation districts	200	4,452	251	5,045
Project use sales	9,006	22,516	9,326	23,314
Total Wyoming	454,351	9,733,206	538,390	9,823,946

Continued on next page.

Sales by State and Customer Category, cont.

State/Type of customer	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Total Loveland Area Projects				
Municipalities	416,774	8,734,558	395,704	8,501,715
Cooperatives	1,269,710	27,212,902	1,343,861	27,675,851
Federal agencies	79,007	1,295,092	213,334	4,280,662
State agencies	389,054	8,281,864	224,422	4,921,003
Public utility districts	15,079	271,081	14,149	260,990
Irrigation districts	200	4,452	251	5,045
Investor-owned utilities	19,279	292,998	0	0
Project use sales	9,142	23,467	9,384	23,725
Total	2,198,245	46,116,413	2,201,105	45,668,992

Top 5 Customers in Firm Energy Sales

Rank	Customer	(MWh)	Percent of total firm sales
1	Tri-State Generation & Trans. Assn., Inc.	995,940	46.1
2	Colorado Springs Utilities	230,304	10.7
3	Municipal Energy Agency of Nebraska	145,667	6.7
4	Platte River Power Authority	120,082	5.6
5	Kansas Municipal Energy Agency	99,550	4.6
	Total	1,591,544	73.7

Top 5 Customers in Firm Power Revenue

Rank	Customer	(\$)	Percent of total firm revenue
1	Tri-State Generation & Trans. Assn., Inc.	22,204,600	48.6
2	Colorado Springs Utilities	4,602,572	10.1
3	Municipal Energy Agency of Nebraska	3,134,517	6.9
4	Platte River Power Authority	2,416,936	5.3
5	Kansas Municipal Energy Agency	2,071,336	4.5
	Total	34,429,962	75.4

Top 5 Customers in Nonfirm Energy Sales

Rank	Customer	(MWh)	Percent of total nonfirm sales
1	Salt River Project	8,130	28.2
2	Public Service Company of New Mexico	6,310	21.9
3	PacifiCorp	5,940	20.6
4	Public Service Company of Colorado	4,849	16.8
5	Montana Power Company	1,740	6.0
	Total	26,969	93.7

Top 5 Customers in Nonfirm Power Revenue

Rank	Customer	(\$)	Percent of total nonfirm revenue
1	Salt River Project	110,368	25.8
2	Public Service Company of New Mexico	89,783	21.0
3	PacifiCorp	84,985	19.9
4	Public Service Company of Colorado	90,175	21.1
5	Montana Power Company	20,775	4.9
	Total	396,085	92.7

Purchased Power

Supplier	FY 1999		FY 1998	
	Energy (MWh)	Costs (\$ 000)	Energy (MWh)	Costs (\$ 000)
Non-Western suppliers				
Basin Electric Power Cooperative	53,305	843	0	0
Montana Power Company	0	0	440	8
Nebraska Public Power District	28,938	769	459	15
PacifiCorp	0	0	160	6
Platte River Power Authority	0	0	120	3
Rocky Mountain Generation Coop.	0	0	53,040	1,569
Sunflower Electric Power Corp., Inc.	6,718	129	202	9
Subtotal Non-Western suppliers	88,961	1,741	54,421	1,610
Western suppliers				
Parker-Davis Project	0	0	100	5
Salt Lake City Area/Integrated Projects	65,588	1,789	26,255	721
Pick-Sloan—Eastern Division	118,639	2,217	1,230	38
Subtotal Western suppliers	184,227	4,006	27,585	764
Total purchased power	273,188	5,747¹	82,006	2,374

¹ Does not reflect interchange energy.

Purchased Transmission

Supplier	FY 1999 Costs ¹ (\$ 000)	FY 1998 Costs ¹ (\$ 000)
Non-Western suppliers		
Nebraska Public Power District	528	483
PacifiCorp	162	22
Platte River Power Authority	2	0
Public Service Company of Colorado	3,612	3,578
Rocky Mountain Generation Coop., Inc. ²	10	34
Tri-State Generation and Trans. Assn, Inc.	166	155
Others ³	0	0
Subtotal Non-Western Suppliers	4,479	4,272
Western suppliers		
Loveland Area Projects	243	6
Salt Lake City Area/Integrated Projects	84	3
Parker-Davis Project	1	0
Subtotal Western suppliers	328	9
Total purchased transmission	4,807	4,281

¹ Includes transmission costs for energy and capacity.

² Reflects pass-through cost to third party.

³ "Others" includes Basin Electric Power Cooperative, Colorado Springs Utilities, Municipal Energy Agency of Nebraska, Utilicorp United and Wyoming Municipal Power Agency.

Purchased Ancillary Services

Supplier	FY 1999 Costs ¹ (\$ 000)	FY 1998 Costs (\$ 000)
Non-Western suppliers		
Basin Electric Power Cooperative	89	0
Public Service Company of Colorado	3	0
Tri-State G&T Assn., Inc.	1	0
Others ²	1	0
Subtotal Non-Western suppliers	94	0
Western suppliers		
Parker-Davis Project	17	0
Subtotal Western suppliers	17	0
Total purchased ancillary services	111	0

¹ Costs were included in transmission rates in FY 98.

² "Others" includes Colorado Springs Utilities, Municipal Energy Agency of Nebraska, Platte River Power Authority, Utilicorp United and Wyoming Municipal Power Agency.

Customers by State and Customer Category

State/ Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Arizona								
State agencies	0	0	1	1	0	0	0	0
Investor-owned utilities	0	0	1	1	0	0	0	0
California								
Municipalities	0	0	1	1	0	0	0	0
Colorado								
Municipalities	9	0	0	9	9	0	0	9
Cooperatives	1	1	0	2	2	0	0	2
Federal agencies	4	0	0	4	4	0	0	4
State agencies	2	0	0	2	2	0	0	2
Investor-owned utilities	0	0	1	1	0	0	0	0
Kansas								
Municipalities	1	0	0	1	1	0	0	1
Cooperatives	1	0	0	1	1	0	0	1
Montana								
Investor-owned utilities	0	0	1	1	0	0	0	0
Nebraska								
Municipalities	3	0	0	3	3	0	0	3
Cooperatives	0	1	0	1	1	0	0	1
State agencies	0	1	0	1	1	0	0	1
Public utility districts	1	0	0	1	1	0	0	1
Nevada								
Investor-owned utilities	0	0	1	1	0	0	0	0
New Mexico								
Investor-owned utilities	0	0	1	1	0	0	0	0
Oregon								
Investor-owned utilities	0	0	1	1	0	0	0	0
Wyoming								
Municipalities	1	0	0	1	1	0	0	1
Cooperatives	2	1	0	3	2	1	0	3
Federal agencies	1	0	0	1	1	0	0	1
State agencies	0	1	0	1	1	0	0	1
Irrigation district	2	0	0	2	2	0	0	2
Subtotal	28	3	8	39	30	1	0	31

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Customers by State and Customer Category, cont.

State/ Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Project use sales	9	0	0	9	9	0	0	9
	37	3	8	48	39	1	0	40
Total Western ¹	37	3	8	48	39	1	0	40
Summary by state								
Arizona	0	0	2	2	0	0	0	0
California	0	0	1	1	0	0	0	0
Colorado	16	1	1	18	17	0	0	17
Kansas	2	0	0	2	2	0	0	2
Montana	0	0	1	1	0	0	0	0
Nebraska	4	2	0	6	6	0	0	6
Nevada	0	0	1	1	0	0	0	0
New Mexico	0	0	1	1	0	0	0	0
Oregon	0	0	1	1	0	0	0	0
Wyoming	6	2	0	8	7	1	0	8
Total ¹	28	3	8	39	30	1	0	31
Summary by customer category								
Municipalities	14	0	1	15	14	0	0	14
Cooperatives ¹	4	3	0	7	6	1	0	7
Federal agencies	5	0	0	5	5	0	0	5
State agencies	2	2	1	5	4	0	0	4
Public utility districts	1	0	0	1	1	0	0	1
Irrigation districts	2	0	0	2	2	0	0	2
Investor-owned utilities	0	0	6	6	0	0	0	0
Total ¹	28	3	8	39	30	1	0	31
Project use sales	9	0	0	9	9	0	0	9
Total Western	37	3	8	48	39	1	0	40

¹ Tri-State G&T is counted as a cooperative customer in Colorado, Nebraska and Wyoming, but as only one customer in total LAP.

Power Sales and Revenue

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Municipalities						
California						
Los Angeles Dept of Water & Power			450	9,000	0	0
Subtotal California			450	9,000	0	0
Colorado						
Burlington	1,548	1,120	4,498	94,426	4,210	91,301
Center	225	270	1,258	22,114	1,201	21,495
Colorado Springs Utilities	63,358	59,663	230,304	4,602,572	217,394	4,462,384
Denver Water Board	2,843	2,215	7,060	163,093	7,060	163,093
Fort Morgan	15,842	15,610	32,970	895,554	31,049	874,711
Frederick	170	167	950	16,070	910	15,636
Holyoke	2,102	1,548	6,145	129,088	5,754	124,846
Julesburg	710	508	2,011	42,647	1,884	41,269
Wray	4,013	1,923	9,119	200,447	8,486	193,579
Subtotal Colorado			294,315	6,166,011	277,948	5,988,314
Kansas						
Kansas Municipal Energy Agency	30,956	27,010	99,550	2,071,336	96,458	2,037,788
Subtotal Kansas			99,550	2,071,336	96,458	2,037,788

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Nebraska						
Lodgepole	79	87	273	5,801	258	5,638
Sidney	2,816	2,462	5,584	150,840	5,242	147,129
Wauneta	1,020	1,000	3,344	70,824	3,223	69,512
Subtotal Nebraska			9,201	227,465	8,723	222,279
Wyoming						
Torrington	3,322	3,514	13,258	260,745	12,575	253,334
Subtotal Wyoming			13,258	260,745	12,575	253,334
Total municipalities			416,774	8,734,558	395,704	8,501,715
Rural electric cooperatives						
Colorado						
Intermountain Rural Electric Assn.	19,000	21,500	88,544	1,653,247	83,893	1,602,784
Tri-State G&T Assn.	191,074	143,022	500,563	11,156,373	484,952	11,172,261
Subtotal Colorado			589,106	12,809,620	568,845	12,775,044
Kansas						
Kansas Electric Power Coop., Inc.	13,976	13,329	92,030	1,465,441	90,056	1,444,023
Subtotal Kansas			92,030	1,465,441	90,056	1,444,023
Nebraska						
Tri-State G&T Assn.	86,260	51,944	207,023	4,614,056	218,947	5,044,080
Subtotal Nebraska			207,023	4,614,056	218,947	5,044,080
Wyoming						
Basin Electric Power Coop.	24,871	25,359	91,910	1,870,356	235,770	3,110,490
Tri-State G&T Assn.	90,550	102,468	289,154	6,444,572	229,778	5,293,595
Willwood Light & Power Co.	92	117	487	8,858	465	8,619
Subtotal Wyoming			381,551	8,323,785	466,013	8,412,704
Total cooperatives			1,269,710	27,212,902	1,343,861	27,675,851
Federal agencies						
Colorado						
Arapahoe & Roosevelt National Forests	202	282	403	6,272	409	7,213
Peterson Air Force Base	4,401	4,388	29,066	465,660	28,457	459,047
Rocky Flats—DOE	3,280	3,250	20,389	332,884	20,384	332,824
U.S. Air Force Academy	1,753	1,823	11,590	186,902	11,349	184,291
Subtotal Colorado			61,448	991,717	60,599	983,375
Wyoming						
Francis E. Warren AFB	3,300	3,300	17,559	303,375	16,830	295,465
Subtotal Wyoming			17,559	303,375	16,830	295,465
Total Federal agencies			79,007	1,295,092	77,429	1,278,840
State agencies						
Arizona						
Salt River Project			8,130	110,368	0	0
Subtotal Arizona			8,130	110,368	0	0
Colorado						
Arkansas River Power Authority	29,661	23,285	82,318	1,798,527	77,330	1,744,407
Platte River Power Authority	31,566	33,282	120,082	2,416,936	113,697	2,342,513
Subtotal Colorado			202,400	4,215,463	191,027	4,086,920
Nebraska						
Municipal Energy Agency of Neb.	45,280	44,033	145,746	3,137,700	135,905	3,001,822
Subtotal Nebraska			145,746	3,137,700	135,905	3,001,822
Wyoming						
Wyoming Municipal Power Agency	12,413	14,420	32,777	818,333	33,395	834,083
Subtotal Wyoming			32,777	818,333	33,395	834,083
Total state agencies			389,054	8,281,864	360,327	7,922,825

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Public utility districts						
Nebraska						
Nebraska Public Power District	4,007	2,278	15,079	271,081	14,149	260,990
Subtotal Nebraska			15,079	271,081	14,149	260,990
Total public utility districts			15,079	271,081	14,149	260,990
Irrigation districts						
Wyoming						
Goshen Irrigation District	26	26	22	670	48	983
Midvale Irrigation District	59	84	178	3,782	203	4,062
Subtotal Wyoming			200	4,452	251	5,045
Total irrigation districts			200	4,452	251	5,045
Investor-owned utilities						
Arizona						
Tucson Electric Power Company			240	2,880	0	0
Subtotal Arizona			240	2,880	0	0
Colorado						
Public Service Company of Colorado			4,849	90,175	0	0
Subtotal Colorado			4,849	90,175	0	0
Montana						
Montana Power Company			1,740	20,775	0	0
Subtotal Montana			1,740	20,775	0	0
Nevada						
Nevada Power Company			200	4,400	0	0
Subtotal Nevada			200	4,400	0	0
New Mexico						
Public Service Company of New Mexico			6,310	89,783	0	0
Subtotal New Mexico			6,310	89,783	0	0
Oregon						
PacifiCorp			5,940	84,985	0	0
Subtotal Oregon			5,940	84,985	0	0
Total investor-owned utilities			19,279	292,998	0	0
Loveland Area Projects subtotal			2,189,103	46,092,946	2,191,721	45,645,267
Project use sales						
Colorado	889	959	136	951	58	411
Wyoming	3,560	0	9,006	22,516	9,326	23,314
Total project use sales			9,142	23,467	9,384	23,725
Loveland Area Projects total			2,198,245	46,116,413	2,201,105	45,668,992

Transmission Revenue

	FY 1999	FY 1998
Transmission service	Revenue (\$)	Revenue (\$)
Firm transmission service	7,046,625	10,571,019
Firm network transmission service	8,095,892	2,890,207
Nonfirm point-to-point transmission service	2,129,284	1,065,087
Short-term firm point-to-point transmission service	307,800	0
Loveland Area Projects total	17,579,601	14,526,314

Ancillary Services Revenue ¹

	FY 1999	FY 1998
Ancillary service	Revenue (\$)	Revenue (\$)
Firm transmission service	7,046,625	10,571,019
Scheduling and dispatch service ²	71,857	34,054
Reactive supply and voltage control service	129,605	41,795
Regulation and frequency response	707,350	559,053
Loveland Area Projects total	908,812	634,902

¹ Excludes revenues bundled in delivering Federal firm electric service.

² Represent control area services charged to nontransmission customers. Charges to transmission customers are included in transmission revenues.

Fryingpan-Arkansas Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999
Revenue:				
Gross operating revenue	152,066	0	13,578	165,644
Total operating revenue	152,066	0	13,578	165,644
Expenses:				
O & M and other	40,827	(1)	2,741	43,567
Purchase power and other	23,986	0	4,258	28,244
Interest				
Federally financed	78,559	0	4,196	82,755
Total interest	78,559	0	4,196	82,755
Total expense	143,372	(1)	11,195	154,566
(Deficit)/surplus revenue	1	1	(2)	0
Investment:				
Federally financed power	147,755	0	117	147,872
Total investment	147,755	0	117	147,872
Investment repaid:				
Federally financed power	8,693	0	2,385	11,078
Total investment repaid	8,693	0	2,385	11,078
Investment unpaid:				
Federally financed power	139,062	0	(2,268)	136,794
Total investment unpaid	139,062	0	(2,268)	136,794
Percent of investment repaid to date:				
Federal	5.88%			7.49%

1999 PARKER-DAVIS PROJECT

The Parker-Davis Project was formed by consolidating two projects, Davis Dam and Parker Dam, under terms of the Act of May 28, 1954. Parker Dam and Powerplant, which created Lake Havasu 155 miles (250 km) below Hoover Dam on the Colorado River, was authorized by the Rivers and Harbors Act of Aug. 30, 1935. The Bureau of Reclamation constructed the project partly with funds advanced by the Metropolitan Water District of Southern California, which now diverts nearly 1.2 million acre-feet each year by pumping it from Lake Havasu. The Cooperative Contract for Construction and Operation of Parker Dam was agreed to in 1933. MWD receives half of the capacity and energy from four generating units. The Federal share of Parker powerplant capacity, as determined by the Bureau of Reclamation, is 54,000 kW.

Davis Dam, on the Colorado River 67 miles (107.8 km) below Hoover Dam, created Lake Mohave. The project was authorized under the Reclamation Project Act of 1939. Construction began in 1941, but due to delays caused by World War II, it wasn't completed until 1953. Davis Dam has a storage capacity of 1.8 million acre-feet. The Bureau of Reclamation has changed the five generation units' operating capacity from 240,000 kW to 232,000 kW due to the age of the generating units and operational constraints.

Parker-Davis Project is operated in conjunction with the other generating installations in the Colorado River Basin. It supplies the electrical needs of more than 300,000 people. The project includes 1,533 circuit-miles (2,466 km) of high-voltage transmission lines in Arizona, southern Nevada and along the Colorado River in California. Parker-Davis's power marketing criteria are part of the 1984 Conformed General Consolidated Power Marketing Criteria of the Boulder City Area Office (now Western's Desert Southwest Customer Service Region).

Water demands in the Lower Colorado River Basin and releases from Hoover Dam determine operation of the Parker-Davis Project. Parker Dam released 8.7 million acre-feet and Davis Dam released 11.3 million acre-feet in FY 1999. Storage in Lakes Mohave and Havasu was near normal at 2.099 million acre-feet combined at the end of the fiscal year.

In FY 1999, net generation decreased by about 4 percent from 1.762 billion kWh in FY 1998 to 1.686 billion kWh. This is the result of annual water release targets established by the Secretary of the Interior and weather conditions along the Colorado River.

Parker-Davis purchase power decreased from 12 million kWh in FY 1998 to 4 million kWh in FY 1999. Total expenses for Parker-Davis purchased power were \$137,575 in FY 1999. The timing of water releases along the lower stem of the Colorado River did not coincide with the periods when energy was required to meet loads.

Parker-Davis is operationally integrated with Hoover Powerplant. In the event Parker-Davis generation is not sufficient to meet firm contractual obligations, Hoover generation may be used, or Western may purchase power from other resources.

[Continued on next page.](#)

Power generated from the Parker-Davis Project is marketed to customers in Nevada, Arizona and California. Excluding project use, criteria provide for marketing 185,530 kW of capacity in the winter season and 242,515 kW capacity in the summer season. Customers receive 1,703 kWh (winter season) and 3,441 kWh (summer season) of energy with each kW of capacity. Excluding project use, total marketable energy is 316 million kWh (winter season) and 835 million kWh (summer season).

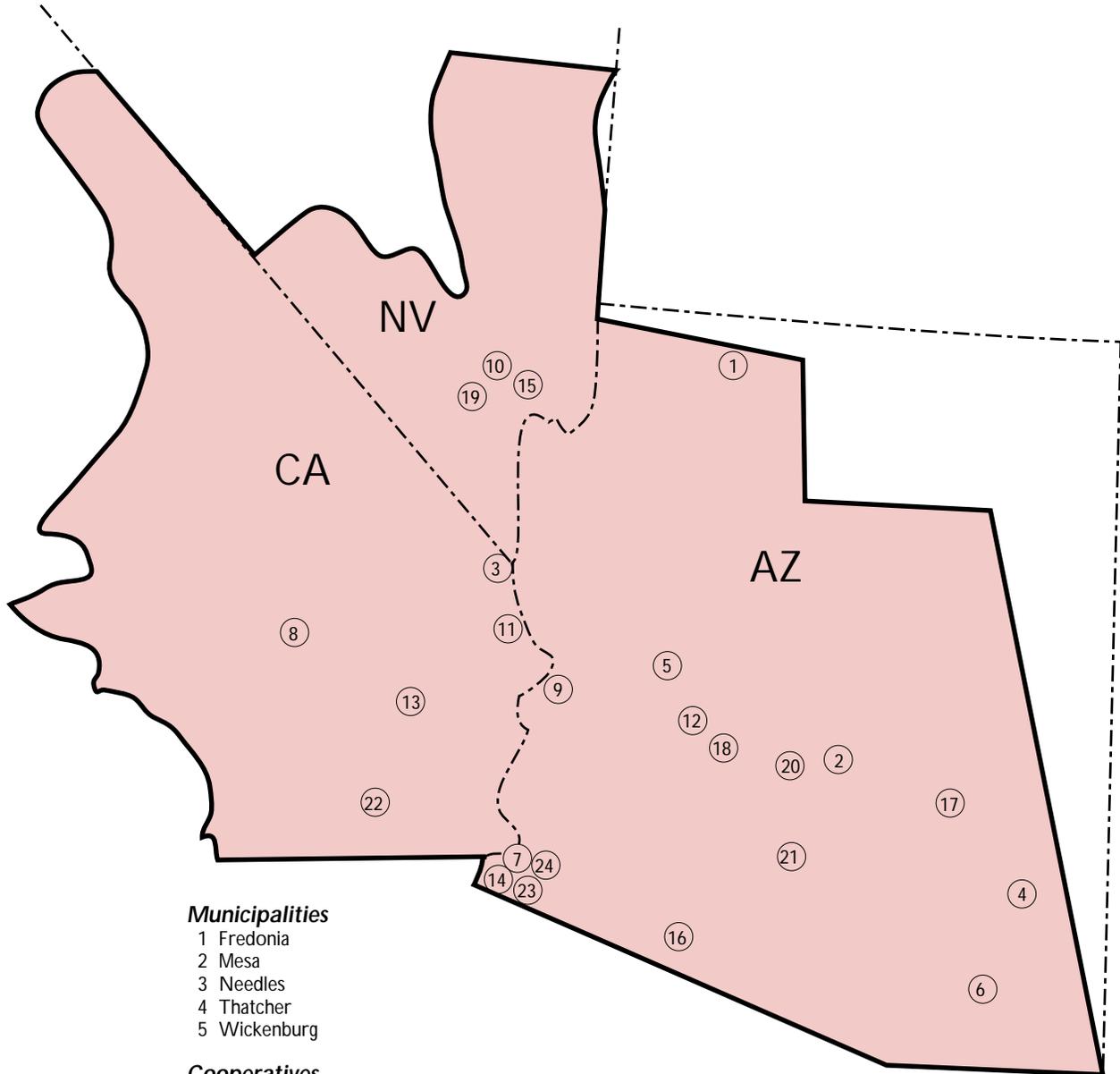
A portion of the resource marketed is reserved for United States' priority use but is not presently needed. This portion—9,460 kW of capacity and associated energy in the winter season and 16,030 kW of capacity and associated energy in the summer season—is withdrawable from existing customers upon two years' written notice. Existing Parker-Davis Project firm power contracts expire on Sept. 30, 2008. About 63 percent of Parker-Davis firm energy sales are made to five of the 46 customers, with about 50 percent of the energy going to Arizona.

Energy sales increased by about 8 percent from 1,631 million kWh in FY 1998 to 1,766 million kWh. Revenue from the sale of electricity increased by about 34 percent from \$7.9 million in FY 1998 to \$10.7 million in FY 1999 due to an increase in excess energy sales and higher nonfirm energy prices.

The methodologies to calculate rates for firm power, firm transmission service, and nonfirm transmission service have been in effect since Nov. 1, 1997.

PARKER - DAVIS PROJECT

Firm Power Customers and Marketing Area



Municipalities

- 1 Fredonia
- 2 Mesa
- 3 Needles
- 4 Thatcher
- 5 Wickenburg

Cooperatives

- 6 Arizona Electric Power Coop.

Federal agencies

- 7 Colorado River Agency
- 8 Edwards Air Force Base
- 9 Yuma Proving Grounds
- 10 Nevada Operations Office—DOE
- 11 Fort Mojave Indian Tribe
- 12 Luke Air Force Base
- 13 March Air Force Base
- 14 Marine Corps Air Station—Yuma
- 15 Nellis Air Force Base
- 16 Tohono O'Odham Nation
- 17 San Carlos Irrigation Project
- 18 Gila Bend Air Force Auxiliary

State agencies

- 19 Colorado River Commission
- 20 Salt River Project

Irrigation districts

- 21 ED-3 Pinal
- 22 Imperial ID
- 23 Wellton—Mohawk ID
- 24 Yuma ID

Note: Does not include interproject and Bureau of Reclamation customers.

Energy Resource and Disposition

	(GWh)	
	FY 1999	FY 1998
Energy resources		
Net generation	1,686	1,762
Interchange ¹		
Received	555	427
Delivered	106	579
Net	449	(152)
Purchases		
Non-Western		1
Western	4	11
Total purchases	4	12
Total energy resources	2,139	1,622
Energy disposition		
Sales of electric energy		
Western sales	1,447	1,436
Project use sales	195	195
Total energy sales	1,642	1,631
Other		
Interproject sales	124	0
Total other	124	0
Total energy delivered	1,766	1,631
System and contractual losses	373	(9)
Total energy disposition	2,139	1,622

¹ Western Area Lower Colorado scheduled interchange.

Facilities and Substations

Facility	FY 1999	FY 1998
Substations		
Number of substations	33	32
Number of transformers	39	39
Transformer capacity (kVA)	1,905,874	1,905,874
Land (fee)		
Acres	422.8	422.8
Hectares	171.17	171.17
Land (easement)		
Acres	65.03	65.03
Hectares	26.33	26.33
Buildings and communications sites		
Number of buildings	66	66
Number of communications sites	53	53
Land (easement)		
Acres	291.37	291.37
Hectares	117.96	117.96

Transmission Lines

Voltage rating	Arizona		California		Nevada		Total	
	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998
230-kV								
Circuit miles	608.35	608.35	1.70	1.70	90.04	90.04	700.09	700.09
Circuit kilometers	978.84	978.84	2.74	2.74	144.87	144.87	1,126.44	1,126.44
Acres	6,369.17	4,016.71	0.00	0	2,035.36	1,246.11	8,404.53	5,262.82
Hectares	2,578.62	1,626.20	0.00	0.00	824.03	504.50	3,402.65	2,130.70
161-kV								
Circuit miles	143.01	143.01	232.79	232.79	0.00	0.00	375.80	375.80
Circuit kilometers	230.10	230.10	374.56	374.56	0.00	0.00	604.66	604.66
Acres	3,894.33	2,707.06	2,691.05	423.01	0.00	0.00	6,585.38	3,130.07
Hectares	1,576.66	1,095.98	1,089.50	171.26	0.00	0.00	2,666.15	1,267.24
115-kV								
Circuit miles	338.80	338.80	0.00	0.00	0.00	0.00	338.80	338.80
Circuit kilometers	545.13	545.13	0.00	0.00	0.00	0.00	545.13	545.13
Acres	3,138.78	3,020.55	0.00	0.00	0.00	0.00	3,138.78	3,020.55
Hectares	1,270.76	1,222.90	0.00	0.00	0.00	0.00	1,270.76	1,222.90
69-kV and below								
Circuit miles	109.01	109.01	5.80	5.80	3.40	3.40	118.21	118.21
Circuit kilometers	175.40	175.40	9.33	9.33	5.47	5.47	190.20	190.20
Acres	595.61	202.99	116.20	0.00	29.65	0.00	741.46	202.99
Hectares	241.14	82.18	47.04	0.00	12.00	0.00	300.19	82.18
Totals								
Circuit miles	1,199.17	1,199.17	240.29	240.29	93.44	93.44	1,532.90	1,532.90
Circuit kilometers	1,929.46	1,929.46	386.63	386.63	150.34	150.34	2,466.44	2,466.44
Acres	13,997.89	9,947.31	2,807.25	423.01	2,065.01	1,246.11	18,870.15	11,616.43
Hectares	5,667.17	4,027.26	1,136.54	171.26	836.04	504.50	7,639.75	4,703.02

Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability ¹ FY 1999 (MW)	Actual Operating capability (MW)		Net generation (GWh) ²	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Arizona									
Davis	Reclamation	Colorado	Jan 51	5	232	232	269	1,395	1,241
California									
Parker	Reclamation	Colorado	Dec 42	4	54 ³	54	69	291	521
Parker-Davis total				9	286	286	338	1,686	1,762

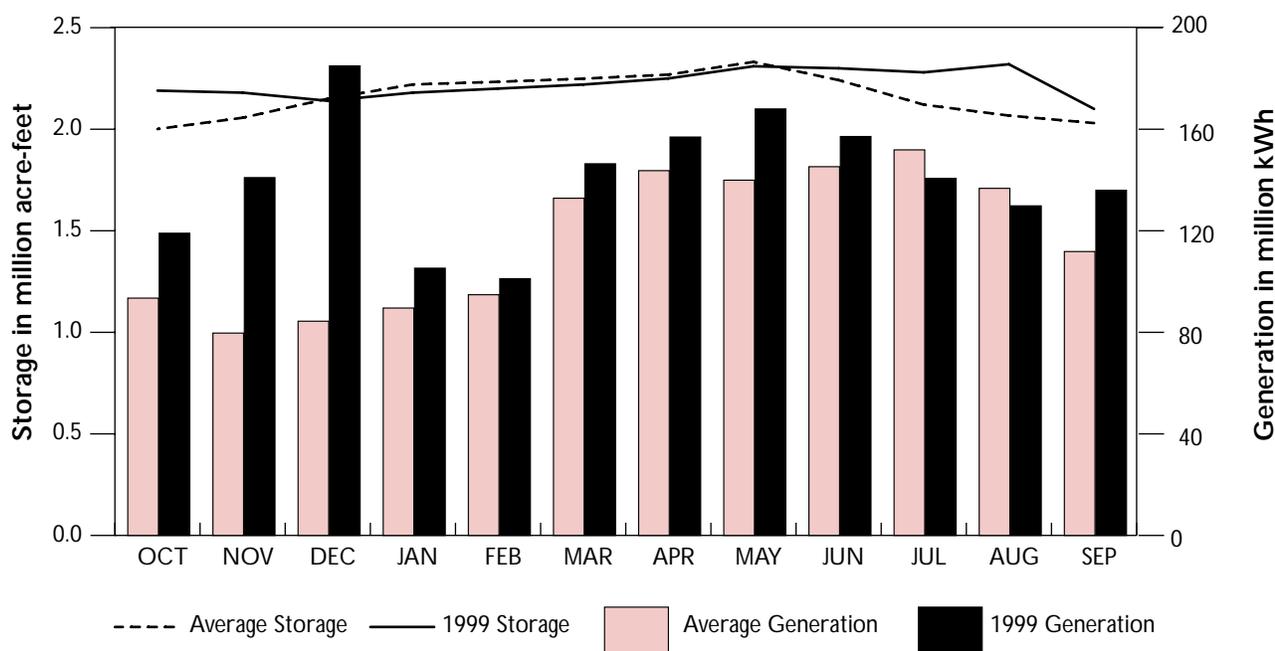
¹ Installed operating capability is the maximum generating capability of the units at unity power factor without exceeding the specified heat rise on each unit and independent of water constraints. Davis Units 2, 3 and 4 are rated at 48 MW each. Davis Units 1 and 5 have been derated to 44 MW each. Davis emergency capacity can be increased from 232 MW to 240 MW. Parker Units 1, 2, 3 and 4 are rated at 27 MW each.

² Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

³ United States' share (50 percent) of plant capability.

Reclamation - Bureau of Reclamation, Department of the Interior

Storage and Generation



Firm Power Rate Provisions

Fiscal year	Rate schedule designation	Monthly Rate		Effective date	Annual composite rate
		Capacity charge (\$/kW of billing demand)	Energy charge not in excess of delivery obligations		
1999	PD-F6	\$0.56	1.29 mills/kWh	11/1/97	2.57 mills/kWh

Transmission Rate Provisions

Fiscal year	Rate schedule designation	Rate
1999	PD-FT6, Firm Transmission Service	\$1.08 per kW per month
	PD-FT5, Firm Transmission Service	\$11.51 per kW per year (\$0.96 per kW per month)

Rate Action Summary

Rate order No.	Project	Type of rate action	Date of notice of public participation	Rate schedule designation	Effective date of rate (first day of first full billing period)	Annual incremental \$(000)	Notes	Date submitted to FERC
WAPA-68	Parker-Davis	Decrease	3/21/95	PD-5	10/1/95	(6,222)	Power	9/29/95
		Increase	3/21/95	PD-FT5	10/1/95	1,791	Transmission	9/29/95
		Increase	3/21/95	PD-NFT5	10/1/95	96	Nonfirm Transmission	9/29/95
		Increase	3/21/95	PD-FCT5	10/1/95	200	Transmission	9/29/95

Marketing Plan Summary

Project	Expiration Date
Parker-Davis	Sept. 30, 2008

Firm and Nonfirm Sales by State

State	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Arizona						
Energy sales—MWh	561,608	128,055	689,663	768,010	119,768	887,778
Power revenues—\$	1,350,378	3,187,121	4,537,499	2,094,503	1,690,119	3,784,622
California						
Energy sales—MWh	322,536	13,306	335,842	278,402	78,142	356,544
Power revenues—\$	801,635	216,238	1,017,872	776,561	1,300,411	2,076,972
Colorado						
Energy sales—MWh	0	16,643	16,643	0	36,455	36,455
Power revenues—\$	0	278,423	278,423	0	193,390	193,390
Idaho						
Energy sales—MWh	0	10,700	10,700	0	800	800
Power revenues—\$	0	152,960	152,960	0	11,200	11,200
Missouri						
Energy sales—MWh	0	507	507	0	0	0
Power revenues—\$	0	6,590	6,590	0	0	0
Montana						
Energy sales—MWh	0	0	0	0	600	600
Power revenues—\$	0	0	0	0	23,850	23,850
Nevada						
Energy sales—MWh	365,583	5,960	371,543	291,641	21,370	313,011
Power revenues—\$	930,115	105,848	1,035,962	776,765	440,563	1,217,327
New Mexico						
Energy sales—MWh	0	8,546	8,546	0	8,851	8,851
Power revenues—\$	0	144,625	144,625	0	159,202	159,202
Ohio						
Energy sales—MWh	0	1,056	1,056	0	0	0
Power revenues—\$	0	14,688	14,688	0	0	0
Oregon						
Energy sales—MWh	0	10,640	10,640	0	22,160	22,160
Power revenues—\$	0	188,387	188,387	0	399,583	399,583
Texas						
Energy sales—MWh	0	440	440	0	0	0
Power revenues—\$	0	5,720	5,720	0	0	0
Utah						
Energy sales—MWh	0	0	0	0	4,890	4,890
Power revenues—\$	0	0	0	0	62,140	62,140
Canada						
Energy sales—MWh	0	2,000	2,000	0	0	0
Power revenues—\$	0	40,400	40,400	0	0	0
Total Parker-Davis ¹						
Energy sales—MWh	1,249,727	197,853	1,447,580	1,338,054	293,036	1,631,089
Power revenues—\$	3,082,127	4,340,999	7,423,127	3,647,829	4,280,456	7,928,286

¹ Excludes energy sales and power revenues to interproject and project use customers.

Top 5 Customers in Firm Energy Sales

Rank	Customer	(MWh)	Percent of total firm sales
1	Colorado River Commission of Nevada	273,560	19
2	Wellton-Mohawk Irrigation District	200,055	14
3	Imperial Irrigation District	164,360	11
4	Salt River Project	156,524	11
5	Arizona Electric Power Coop	122,493	8
Total		916,992	63

Top 5 Customers in Firm Power Revenue

Rank	Customer	(\$)	Percent of total firm revenue
1	Colorado River Commission of Nevada	690,964	19
2	Wellton-Mohawk Irrigation District	499,274	14
3	Imperial Irrigation District	413,261	12
4	Salt River Project	389,179	11
5	Arizona Electric Power Coop	302,834	8
Total		2,295,512	64

Top 5 Customers in Nonfirm Energy Sales

Rank	Customer	(MWh)	Percent of total nonfirm sales
1	Salt River Project	73,465	37
2	Arizona Electric Power Coop	27,594	14
3	Public Service Company of Colorado	14,568	7
4	Yuma Desalting Plant	13,190	7
5	Idaho Power Co.	10,700	5
Total		139,517	71

Top 5 Customers in Nonfirm Power Revenue

Rank	Customer	(\$)	Percent of total nonfirm revenue
1	Salt River Project	1,838,876	42
2	Arizona Electric Power Coop	885,972	20
3	Yuma Desalting Plant	236,423	5
4	Idaho Power Co.	227,576	5
5	PacifiCorp	188,387	4
Total		3,377,234	78

Firm and Nonfirm Sales by Customer Category

Type of customer	FY 1999			FY 1998		
	Firm only	Nonfirm only	Total	Firm only	Nonfirm only	Total
Municipalities						
Energy sales—MWh	107,426	1,044	108,470	76,081	26,015	102,096
Revenue—\$	256,812	10,198	267,010	192,530	446,881	639,411
Cooperatives						
Energy sales—MWh	122,493	27,924	150,417	70,648	5,045	75,693
Revenue—\$	302,834	888,777	1,191,610	171,104	117,665	288,770
Federal agencies						
Energy sales—MWh	364,696	13,270	377,966	336,474	530	337,004
Revenue—\$	891,241	228,536	1,119,777	891,891	684	892,575
State agencies						
Energy sales—MWh	430,084	85,485	515,569	484,357	84,148	568,505
Revenue—\$	1,080,143	2,035,769	3,115,912	1,319,794	976,023	2,295,817
Irrigation districts						
Energy sales—MWh	225,028	3,605	228,633	370,493	0	370,493
Revenue—\$	551,097	91,170	642,267	1,072,509	0	1,072,509
Investor-owned utilities						
Energy sales—MWh	0	60,591	60,591	0	140,868	140,868
Revenue—\$	0	975,885	975,885	0	2,545,914	2,545,914
Power marketers						
Energy sales—MWh	0	5,934	5,934	0	36,430	36,430
Revenue—\$	0	110,665	110,665	0	193,290	193,290
Total ¹						
Energy sales—MWh	1,249,727	197,853	1,447,580	1,338,054	293,036	1,631,089
Revenue—\$	3,082,127	4,340,999	7,423,127	3,647,829	4,280,456	7,928,286

¹ Excludes energy sales and power revenues to interproject and project use customers.

Purchased Power

Supplier	FY 1999		FY 1998	
	Energy (MWh)	Costs (\$ 000)	Energy (MWh)	Costs (\$ 000)
Non-Western suppliers				
PacifiCorp	1,400	42	0	0
Nevada Power Company	350	14	0	0
Public Service Co. of New Mexico	1,085	39	1,413	40
Salt River Project	100	4	50	1
Arizona Public Service	900	33	0	0
Subtotal	3,835	131	1,463	41
Western suppliers				
Salt Lake City Area/Integrated Projects ¹	125	7	10,901	501
Subtotal	125	7	10,901	501
Total	3,960	138	12,364	542

¹ Purchased power was financed through energy banking arrangements and did not use appropriated funds.

Sales by State and Customer Category

Type of customer	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Arizona				
Municipalities	78,771	188,476	50,125	125,135
Cooperatives	150,087	1,188,805	75,693	288,770
Federal agencies	156,422	560,588	188,955	499,249
State agencies	233,352	2,310,079	280,835	1,366,729
Irrigation districts	60,668	137,837	240,253	686,722
Investor-owned utilities	10,000	143,857	51,917	818,017
Power marketers	363	7,857	0	0
Project use sales	195,267	502,572	0	0
Total Arizona	884,930	5,040,071	887,778	3,784,622
California				
Municipalities	29,699	78,534	51,881	511,156
Federal agencies	129,521	320,038	122,206	323,379
State agencies	8,657	114,870	21,872	222,270
Irrigation districts	167,965	504,431	130,241	385,787
Investor-owned utilities	0	0	30,345	634,380
Total California	335,842	1,017,872	356,544	2,076,972
Colorado				
Investor-owned utilities	14,568	236,423	25	100
Power marketers	2,075	42,000	36,430	193,290
Interproject	123,195	2,724,506	224	6,256
Total Colorado	139,838	3,002,929	36,679	199,646
Idaho				
Investor-owned utilities	10,700	152,960	800	11,200
Total Idaho	10,700	152,960	800	11,200
Missouri				
Investor-owned utilities	507	6,590	0	0
Total Missouri	507	6,590	0	0
Montana				
Investor-owned utilities	0	0	600	23,850
Total Montana	0	0	600	23,850
Nevada				
Federal agencies	92,023	239,151	25,844	69,947
State agencies	273,560	690,964	265,798	706,818
Investor-owned utilities	5,960	105,848	21,370	440,563
Total Nevada	371,543	1,035,962	313,011	1,217,327
New Mexico				
Municipalities	0	0	90	3,120
Cooperatives	330	2,805	0	0
Investor-owned utilities	8,216	141,820	8,761	156,082
Total New Mexico	8,546	144,625	8,761	156,082
Nebraska				
Power marketers	1,056	14,688	0	0
Total Nebraska	1,056	14,688	0	0
Oregon				
Investor-owned utilities	10,640	188,387	22,160	399,583
Total Oregon	10,640	188,387	22,160	399,583
Texas				
Power marketers	440	5,720	0	0
Total Texas	440	5,720	0	0
Utah				
Investor-owned utilities	0	0	4,890	62,140
Total Utah	0	0	4,890	62,140
Canada				
Power marketers	2,000	40,400	0	0
Total Canada	2,000	40,400	0	0

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Sales by State and Customer Category, cont.

Type of customer	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Total Parker-Davis				
Municipalities	108,470	267,010	102,096	639,411
Cooperatives	150,417	1,191,610	75,693	288,770
Federal agencies	377,966	1,119,777	337,004	892,575
State agencies	515,569	3,115,912	568,505	2,295,817
Irrigation districts	228,633	642,267	370,493	1,072,509
Investor-owned utilities	60,591	975,885	140,868	2,545,914
Power marketers	5,934	110,665	36,430	193,290
Interproject	123,195	2,724,506	224	6,256
Project use sales	195,267	502,572	0	0
Total Parker-Davis	1,766,042	10,650,205	1,631,313	7,934,542

Customers by State and Customer Category

State/Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Arizona								
Municipalities	4	0	0	4	4	0	0	4
Cooperatives	0	1	1	2	0	1	0	1
Federal agencies	6	1	1	8	6	1	0	7
State agencies	0	1	1	2	1	1	0	2
Irrigation district	3	0	0	3	4	0	0	4
Investor-owned utilities	0	0	2	2	0	0	2	2
Power marketers	0	0	1	1	0	0	0	0
California								
Municipalities	1	0	1	2	1	0	6	7
Federal agencies	3	0	0	3	3	0	0	3
State agencies	0	0	1	1	0	0	1	1
Irrigation district	0	1	0	1	1	0	0	1
Investor-owned utilities	0	0	0	0	0	0	2	2
Colorado								
Cooperatives	0	0	0	0	0	0	1	1
Investor-owned utilities	0	0	1	1	0	0	0	0
Power marketers	0	0	2	2	0	0	2	2
Idaho								
Investor-owned utilities	0	0	1	1	0	0	1	1
Missouri								
Investor-owned utilities	0	0	1	1	0	0	1	1
Montana								
Investor-owned utilities	0	0	0	0	0	0	1	1
New Mexico								
Municipalities	0	0	0	0	0	0	1	1
Investor-owned utilities	0	0	1	1	0	0	1	1
Nebraska								
Power marketers	0	0	1	1	0	0	0	0
Nevada								
Federal agencies	2	0	0	2	2	0	0	2
State agencies	1	0	0	1	1	0	0	1
Investor-owned utilities	0	0	1	1	0	0	1	1
Oregon								
Investor-owned utilities	0	0	1	1	0	0	1	1
Texas								
Power marketers	0	0	1	1	0	0	0	0
Utah								
Power marketers	0	0	0	0	0	0	1	1

Continued on next page.

Customers by State and Customer Category, cont.

State/Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Canada								
Power marketers	0	0	1	1	0	0	0	0
Subtotal	20	4	19	43	23	3	22	48
Project use sales	2	0	0	2	0	0	0	0
Total	22	4	19	45	23	3	22	48
Interproject sales	0	0	1	1	0	0	2	2
	22	4	20	46	23	3	24	50
Summary by state								
Arizona	13	3	6	22	15	3	2	20
California	4	1	2	7	5	0	9	14
Colorado	0	0	3	3	0	0	3	3
Idaho	0	0	1	1	0	0	1	1
Missouri	0	0	1	1	0	0	0	0
Montana	0	0	0	0	0	0	1	1
New Mexico	0	0	1	1	0	0	2	2
Nebraska	0	0	1	1	0	0	0	0
Nevada	3	0	1	4	3	0	1	4
Oregon	0	0	1	1	0	0	1	1
Texas	0	0	1	1	0	0	0	0
Utah	0	0	0	0	0	0	1	1
Canada	0	0	1	1	0	0	0	0
Total	20	4	19	43	23	3	21	47
Summary by customer category								
Municipalities	5	0	1	6	5	0	7	12
Cooperatives	0	1	1	2	0	1	1	2
Federal agencies	11	1	1	13	11	1	0	12
State agencies	1	1	2	4	2	1	1	4
Irrigation districts	3	1	0	4	5	0	0	5
Investor-owned utilities	0	0	8	8	0	0	9	9
Power marketers	0	0	6	6	0	0	3	3
Subtotal	20	4	19	43	23	3	21	47
Project use sales	2	0	0	2	0	0	0	0
Total	22	4	19	45	23	3	21	47
Interproject sales	0	0	1	1	0	0	2	2
	22	4	20	46	23	3	23	49

Note: In FY 1999, Western sold PDP power to 26 preference customers (col 1+2); 4 of these customers also purchased nonfirm power (col. 2). Nonfirm sales were made to 20 other customers (col. 3), such as investor-owned utilities and power marketers. Detail information on each customer is listed in the PDP Power Sales and Revenue table.

Power Sales and Revenue

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Municipalities						
Arizona						
Fredonia	1,577	1,342	8,782	21,268	8,285	21,474
Thatcher	350	250	1,874	4,490	1,740	4,474
Mesa	10,450	8,000	57,650	137,733	31,020	75,128
Wickenburg	1,837	1,530	10,465	24,985	9,080	24,059
Subtotal Arizona			78,771	188,476	50,125	125,135
California						
Anaheim			0	0	6,300	126,000
Burbank			0	0	30	900
Colton			0	0	755	21,166
Glendale			0	0	90	3,150
Los Angeles Dept. of Water and Power			1,044	10,198	18,690	290,745
Needles	5,100	4,064	28,655	68,336	25,956	67,395
Riverside			0	0	60	1,800
Subtotal California			29,699	78,534	51,881	511,156
New Mexico						
Farmington			0	0	90	3,120
Subtotal New Mexico			0	0	90	3,120
Total municipalities			108,470	267,010	102,096	639,411
Cooperatives						
Arizona						
Arizona Electric Power Coop	23,800	18,400	150,087	1,188,805	75,693	288,770
Subtotal Arizona			150,087	1,188,805	75,693	288,770
New Mexico						
Plains Electric G & T			330	2,805	0	0
Subtotal New Mexico			330	2,805	0	0
Total cooperatives			150,417	1,191,610	75,693	288,770
Federal agencies						
Arizona						
Colorado River Agency—BIA	8,900	5,940	17,603	38,460	40,741	107,822
San Carlos Project—BIA	17,185	13,130	51,795	118,335	84,094	220,892
Gila Bend Air Force Auxiliary	394	395	2,422	5,775	2,208	5,748
Luke Air Force Base	2,235	2,227	13,732	32,703	12,529	32,560
Marine Corps Air Station—Yuma	2,157	1,795	12,289	29,335	10,479	28,132
Tohono O'Odham Nation	2,887	2,353	16,314	38,951	13,941	37,374
Yuma Desalting Plant— Reclamation Proj. Office			13,190	227,576	0	0
Yuma Proving Ground	5,235	4,080	29,077	69,454	24,962	66,719
Subtotal Arizona			156,422	560,588	188,955	499,249
California						
Ft. Mohave Indian Tribe	1,970	1,200	10,719	24,712	9,042	23,504
Edwards Air Force Base	18,285	14,630	96,151	236,676	90,434	238,528
March Air Force Base	4,570	4,113	22,651	58,651	22,730	61,347
Subtotal California			129,521	320,038	122,206	323,379
Nevada						
Nellis Air Force Base	2,887	2,630	14,365	37,212	14,413	38,933
Nevada Operations Ofc—DOE	2,244	2,178	77,658	201,939	11,431	31,014
Subtotal Nevada			92,023	239,151	25,844	69,947
Total Federal agencies			377,966	1,119,777	337,004	892,575
State agencies						
Arizona						
Arizona Power Pooling Assoc.	34,250	26,400	0	0	68,562	218,024
Central Arizona Water Conservation			3,363	82,024	0	0

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Salt River Project	31,700	22,500	229,989	2,228,055	212,273	1,148,705
Subtotal Arizona			233,352	2,310,079	280,835	1,366,729
California						
Metropolitan Water Dist of So. Calif.			8,657	114,870	21,872	222,270
Subtotal California			8,657	114,870	21,872	222,270
Nevada						
Colorado River Commission	56,950	41,010	273,560	690,964	265,798	706,818
Subtotal Nevada			273,560	690,964	265,798	706,818
Total state agencies			515,569	3,115,912	568,505	2,295,817
Irrigation districts						
Arizona						
ED-1 & ED-3—Pinal	5,200	2,474	30,797	74,325	25,607	67,928
Wellton-Mohawk I&DD	40,000	39,345	26,967	53,786	193,901	562,292
Yuma Cty Water Users	3,600	3,600	0	0	17,357	46,034
Yuma Irrigation District	960	780	2,904	9,726	3,388	10,469
Yuma Mesa Irr & DD			0	0	0	0
Unit B			0	0	0	0
Subtotal Arizona			60,668	137,837	240,253	686,722
California						
Imperial Irrigation District	32,550	26,300	167,965	504,431	130,241	385,787
Subtotal California			167,965	504,431	130,241	385,787
Total irrigation districts			228,633	642,267	370,493	1,072,509
Investor-owned utilities						
Arizona						
Arizona Public Service			8,576	116,801	42,744	623,546
Tucson Electric Power Co.			1,424	27,056	9,173	194,472
Subtotal Arizona			10,000	143,857	51,917	818,017
California						
San Diego Gas & Electric Co.			0	0	0	0
Pacific Gas and Electric Co.			0	0	600	7,800
Southern California Edison Co.			0	0	29,745	626,580
Subtotal California			0	0	30,345	634,380
Colorado						
Public Service Co. of Colorado			14,568	236,423	25	100
Subtotal Colorado			14,568	236,423	25	100
Idaho						
Idaho Power Co.			10,700	152,960	800	11,200
Subtotal Idaho			10,700	152,960	800	11,200
Missouri						
Utilicorp			507	6,590	600	23,850
Subtotal Missouri			507	6,590	600	23,850
Montana						
Montana Power Co.			0	0	600	23,850
Subtotal Montana			0	0	600	23,850
New Mexico						
Public Service Co. of New Mexico			8,216	141,820	8,761	156,082
Subtotal New Mexico			8,216	141,820	8,761	156,082
Nevada						
Nevada Power Company			5,960	105,848	21,370	440,563
Subtotal Nevada			5,960	105,848	21,370	440,563

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Oregon						
PacifiCorp			10,640	188,387	22,160	399,583
Subtotal Oregon			10,640	188,387	22,160	399,583
Utah						
Illinova Energy			0	0	4,890	62,140
Subtotal Utah			0	0	4,890	62,140
Total investor-owned			60,591	975,885	140,868	2,545,914
Power Marketers						
Arizona						
Duke/Louis Dreyfus Electric Power			363	7,857	0	0
Subtotal Arizona			363	7,857	0	0
Colorado						
Rocky Mt. Generation Coop			1,475	33,500	30	1,290
E Prime, Inc.			600	8,500	36,400	192,000
Subtotal Colorado			2,075	42,000	36,430	193,290
Nebraska						
American Electric			1,056	14,688	0	0
Subtotal Nebraska			1,056	14,688	0	0
Texas						
Enron Power Marketing			440	5,720	0	0
Subtotal Texas			440	5,720	0	0
Canada						
PowerEx			2,000	40,400	30	1,290
Subtotal Canada			2,000	40,400	30	1,290
Total power marketers			5,934	110,665	36,430	193,290
Subtotal Parker-Davis			1,447,580	7,423,127	1,631,089	7,928,286
Project use sales			195,267	502,572	0	0
Interproject sales						
Colorado						
Loveland Area Projects			0	0	100	4,500
Salt Lake City Area/Integrated Projects			123,195	2,724,506	124	1,756
Subtotal Colorado			123,195	2,724,506	224	6,256
Total interproject sales			123,195	2,724,506	224	6,256
Parker-Davis Project total			1,766,042	10,650,205 ¹	1,631,313	7,934,542

¹ Does not include transmission revenue associated with these sales.

Transmission Revenue

	FY 1999	FY 1998
Transmission service	Revenue (\$)	Revenue (\$)
Long-term firm point-to-point	21,037,364	19,846,503
Nonfirm point-to-point	2,209,834	243,624
Total	23,247,198	20,090,127

Ancillary Services Revenue

	FY 1999	FY 1998
Ancillary service	Revenue (\$)	Revenue (\$)
Scheduling and dispatch service	194,974	49,896
Operating reserves — spinning	135,870	2,000
Total	330,844	51,896

Parker-Davis Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999
Revenue:				
Gross operating revenue	770,510	1 ¹	37,881	808,392
Income transfers (net)	1,479	0	(1,391)	88
Total operating revenue	771,989	1	36,490	808,480
Expenses:				
O & M and other	398,865	0	17,585	416,450
Purchase power and other	22,737	0	0	22,737
Interest				
Federally financed	132,810	1 ¹	11,894	144,705
Total interest	132,810	1	11,894	144,705
Total expense	554,412	1	29,479	583,892
(Deficit)/surplus revenue	227	0	6,722 ²	6,949
Investment:				
Federally financed power	330,375	0	9,804	340,179
Nonpower	26,770	0	3,773	30,543
Total investment	357,145	0	13,577	370,722
Investment repaid:				
Federally financed power	190,580	0	289	190,869
Nonpower	26,770	0	0	26,770
Total investment repaid	217,350	0	289	217,639
Investment unpaid:				
Federally financed power	139,795	0	9,515	149,310
Nonpower	0	0	3,773 ³	3,773
Total investment unpaid	139,795	0	13,288	153,083
Percent of investment repaid to date:				
Federal	57.69%			56.11%
Non-Federal	N/A			N/A
Nonpower	100.00%			87.65%

¹ Rounding adjustment

² Parker-Davis Project uses a compound interest amortization approach to determine yearly principle payment amounts. Any dollars left over are applied in future years.

³ New aid to irrigation investment relating to replacement/upgrades of irrigation-related facilities.

1999 PICK-SLOAN MISSOURI BASIN PROGRAM

The Pick-Sloan Missouri Basin Program was authorized by Congress in 1944. The multipurpose program provides flood control, irrigation, navigation, recreation, preservation and enhancement of fish and wildlife and power generation. Pick-Sloan power is marketed by two Western regions—Upper Great Plains and Rocky Mountain.

Seven dams and powerplants on the Missouri River produce hydroelectric power for the Eastern Division of the Pick-Sloan. They are: Canyon Ferry in western Montana; Fort Peck at Fort Peck, Mont.; Garrison at Riverdale, N.D.; Oahe at Pierre, S.D.; Big Bend at Fort Thompson, S.D., and Fort Randall and Gavins Point in southern South Dakota. Yellowtail Dam on the Bighorn River in south central Montana produces power for both the Eastern and Western divisions. Including one-half of Yellowtail, Eastern Division powerplants generate more than 10 million kWh in an average year.

The Bureau of Reclamation operates 16 powerplants in the Pick-Sloan-Western Division. Most of these plants are associated with irrigation-based projects that have reached advanced stages of development. Western Division power is marketed through the Loveland Area Projects by Western's Rocky Mountain Region. Details about the Western Division are found in the Loveland Area Projects section beginning on page 71.

Eastern Division

In FY 1999, the Upper Great Plains saw above-average generation of more than 13.3 billion kWh. The relatively higher generation led to above-average power sales revenue of \$235.3 million for Western's Upper Great Plains Region. The outlook for FY 2000 generation is slightly above average as of Oct. 1, 1999.

High levels of generation over the past several years have allowed Pick-Sloan to maintain its firm power rate since 1995. On Oct. 29, 1998, the UGP Region published a Federal Register notice extending the current firm composite rate of 14.23 mills per kWh through Jan. 31, 2001.

The Upper Great Plains Region serves customers across more than 378,000 square miles in the northern Rocky Mountain and western plains states. Power is delivered through 98 substations, across approximately 7,745 miles of Federal transmission lines, which connect with other regional transmission systems.

The region's 300-plus customers include rural electric cooperatives, municipalities, public utility districts, irrigation districts and Federal and state agencies. Surplus power is sold to a variety of power suppliers, including investor-owned utilities and power marketers as well as preference customers.

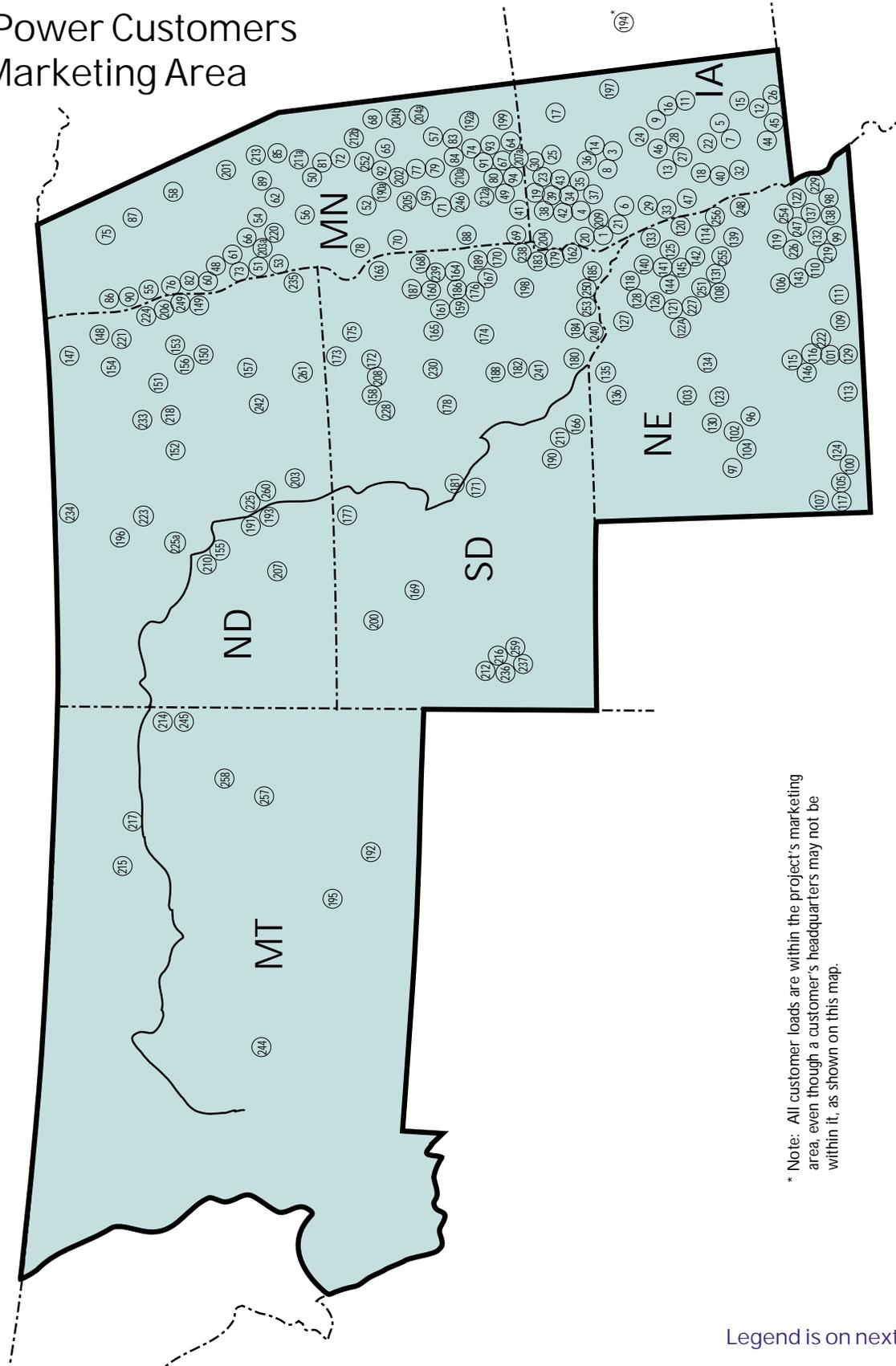
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The Eastern Division of Pick-Sloan is interconnected with Southwestern Power Administration at Maryville, Mo. A connection to the west for power exchange with Bonneville Power Administration is also available through a transmission service agreement. Through our participation in the Mid-Continent Area Power Pool, the Upper Great Plains Region sells power to MAPP utilities at MAPP transmission rates. In addition, in FY 1998 the Upper Great Plains Region combined its transmission facilities with those of Basin Electric Power Cooperative and Heartland Consumers Power District to form the Integrated System. This allows the Upper Great Plains Region, as well as other transmission users, to transmit power and energy across these entities' transmission facilities using a single Integrated System transmission rate.

Major facilities in the Eastern Division marketing area include an Operations Office and Dispatch Center in Watertown, S.D., where power delivery is managed and operated to ensure system reliability. Three maintenance offices oversee the responsibility of 12 line crews and eight substation crews in operating and maintaining the Eastern Division's extensive transmission system. They are located in Bismarck, N.D.; Huron, S.D.; and Fort Peck, Mont. Miles City, Mont., is home to the Upper Great Plains Region's back-to-back direct current converter station. The station can receive alternating current from either the eastern or western power system, convert it into direct current and deliver alternating current into the opposing system. Management and administration is provided from the regional office, located in Billings, Mont.

PICK-SLOAN MISSOURI BASIN PROGRAM

Firm Power Customers and Marketing Area



* Note: All customer loads are within the project's marketing area, even though a customer's headquarters may not be within it, as shown on this map.

Legend is on next page.

Map is on previous page.

Municipalities

Iowa

- 1 Akron
- 3 Alta
- 4 Alton
- 5 Anita
- 6 Anthon
- 7 Atlantic
- 8 Aurelia
- 9 Breda
- 11 Coon Rapids
- 12 Corning
- 13 Denison
- 14 Fonda
- 15 Fontanelle
- 16 Glidden
- 17 Graettinger
- 18 Harlan
- 19 Hartley
- 20 Hawarden
- 21 Hinton
- 22 Kimballton
- 23 Lake Park
- 24 Lake View
- 25 Laurens
- 26 Lenox
- 27 Manilla
- 28 Manning
- 29 Mapleton
- 30 Milford
- 32 Neola
- 33 Onawa
- 34 Orange City
- 35 Paullina
- 36 Primghar
- 37 Remsen
- 38 Rock Rapids
- 39 Sanborn
- 40 Shelby
- 41 Sibley
- 42 Sioux Center
- 43 Spencer
- 44 Stanton
- 45 Villisca
- 46 Wall Lake
- 47 Woodbine
- Minnesota**
- 48 Ada
- 49 Adrian
- 50 Alexandria
- 51 Barnesville
- 52 Benson
- 53 Breckenridge
- 54 Detroit Lakes
- 55 East Grand Forks
- 56 Elbow Lake
- 57 Fairfax
- 58 Fosston
- 59 Granite Falls
- 60 Halstad
- 61 Hawley
- 62 Henning
- 64 Jackson
- 65 Kandiyohi
- 66 Lake Park
- 67 Lakefield
- 68 Litchfield
- 69 Luverne
- 70 Madison
- 71 Marshall
- 72 Melrose
- 73 Moorhead
- 74 Mountain Lake
- 75 Newfolds
- 76 Nielsville
- 77 Olivia
- 78 Ortonville
- 79 Redwood Falls
- 80 St. James
- 81 Sauk Centre
- 82 Shelly
- 83 Sleepy Eye
- 84 Springfield
- 85 Staples
- 86 Stephen
- 87 Thief River Falls
- 88 Tyler
- 89 Wadena
- 90 Warren
- 91 Westbrook
- 92 Willmar
- 93 Windom
- 94 Worthington
- Nebraska**
- 96 Ansley
- 97 Arnold
- 98 Auburn
- 99 Beatrice
- 100 Beaver City
- 101 Blue Hill
- 102 Broken Bow
- 103 Burwell
- 104 Callaway
- 105 Cambridge
- 106 Crete
- 107 Curtis
- 108 David City
- 109 Deshler
- 110 DeWitt
- 111 Fairbury
- 113 Franklin
- 114 Fremont

- 115 Grand Island
- 116 Hastings
- 117 Indianola
- 118 Laurel
- 119 Lincoln
- 120 Lyons
- 121 Madison
- 122 Nebraska City
- 122a Neligh
- 123 Ord
- 124 Oxford
- 125 Pender
- 126 Pierce
- 127 Plainview
- 128 Randolph
- 129 Red Cloud
- 130 Sargent
- 131 Schuyler
- 132 Shickley
- 133 South Sioux City
- 134 Spalding
- 135 Spencer
- 136 Stuart
- 137 Syracuse
- 138 Tecumseh
- 139 Wahoo
- 140 Wakefield
- 141 Wayne
- 142 West Point
- 143 Wilber
- 144 Winside
- 145 Wisner
- 146 Wood River
- North Dakota**
- 147 Cavalier
- 148 Grafton
- 149 Hillsboro
- 150 Hope
- 151 Lakota
- 152 Maddock
- 153 Northwood
- 154 Park River
- 155 Riverdale
- 156 Sharon
- 157 Valley City
- South Dakota**
- 158 Aberdeen
- 159 Arlington
- 160 Aurora
- 161 Badger
- 162 Beresford
- 163 Big Stone City
- 164 Brookings
- 165 Bryant
- 166 Burke
- 167 Colman

- 168 Estelline
- 169 Faith
- 170 Flandreau
- 171 Fort Pierre
- 172 Groton
- 173 Hecla
- 174 Howard
- 175 Langford
- 176 Madison
- 177 McLaughlin
- 178 Miller
- 179 Parker
- 180 Pickstown
- 181 Pierre
- 182 Plankinton
- 183 Sioux Falls
- 184 Tyndall
- 185 Vermillion
- 186 Volga
- 187 Watertown
- 188 Wessington Springs
- 189 White
- 190 Winner

Rural electric cooperatives

- 190a Agralite Electric Coop.
- 191 Basin Electric Power Coop.
- 192 Big Horn County Electric Coop.
- 192a Brown County Rural Electric
- 193 Capital Electric Coop.
- 194 Central Iowa Power Coop.
- 195 Central Montana Electric Power Coop.
- 196 Central Power Electric Coop.
- 197 Corn Belt Power Coop.
- 198 East River Electric Power Coop.
- 199 Federated Rural Electric Assn.
- 200 Grand Electric Coop.
- 201 Itasca-Mantrap Coop. Electric Assn.
- 202 Kandiyohi Coop. Elec. Power Assn.
- 203 KEM Electric Coop.
- 203a Lake Region Coop.
- 204 L&O Power Coop.
- 204a McLeod Coop. Power
- 204b Meeker Coop. Light and Power
- 205 Minnesota Valley Coop.
- 206 Minnkota Power Coop.
- 207 Mor-Gran-Sou Electric Coop.
- 207a Nobles Cooperative Electric
- 208 Northern Electric Coop.
- 209 Northwest Iowa Power Coop.
- 210 Oliver-Mercer Electric Coop.
- 210a Redwood Electric Coop.
- 211 Rosebud Electric Coop.
- 211a Runestone Electric Assn.
- 212 Rushmore Electric Power Coop.
- 212a South Central Electric Assn.
- 212b Stearns Cooperative Electric Assn.
- 213 Todd-Wadens Electric Coop.
- 214 Upper Missouri G&T Electric Coop.

Federal agencies

- 215 3-Mile Pump-BIA
- 216 Ellsworth Air Force Base
- 217 Frazer & Valley-BIA
- 218 Fort Totten/Belcourt-BIA

State agencies

- 219 Beatrice State Dev. Ctr.
- 220 Fergus Falls State Hospital
- 221 Grafton State School
- 222 Hastings Regional Center
- 223 McLean-Sheridan Rural Water
- 224 ND Mill & Elevator
- 225 ND State Water Commission-SW Pipeline Project
- 225a Missouri West
- 226 Nebraska State Penitentiary
- 227 Norfolk Regional Center
- 228 Northern State University-Aberdeen
- 229 Peru State College
- 230 SD Development Center
- 233 ND School for the Deaf
- 234 ND State University-Bottineau
- 235 ND State School of Science-Wahpeton
- 236 SD Cement Plant-Rapid City
- 237 SD School of Mines & Tech
- 238 SD State Penitentiary-Sioux Falls
- 239 SD State University-Brookings
- 240 Springfield Correctional Facility
- 241 SD State Training School-Plankinton, SD
- 242 ND State Hospital-Jamestown
- 244 MT State Water Con. Bd.-Helena
- 245 MT State Water Con. Bd.-Sidney
- 246 Southwest State University, MN
- 247 Univ. of Nebraska-Lincoln
- 248 Univ. of Nebraska-Omaha
- 249 Univ. of ND-Grand Forks
- 250 Univ. of SD-Vermillion
- 251 Wayne State College
- 252 Willmar Regional Treatment Center
- 253 SD Human Services Center-Yankton
- 260 Burleigh Water Users
- 261 Dickey Rural Water Project

Public utility districts

- 254 Municipal Energy Agency of Nebraska
- 255 Nebraska Public Power District
- 256 Omaha Public Power District

Irrigation districts

- 257 Kinsey ID
- 258 Hammond Pump
- 259 Prairie County Water & Sewer Dist No 2

Note: Does not include interproject and Bureau of Reclamation customers.

Energy Resources and Disposition

	(GWh)	
	FY 1999	FY 1998
Energy resource		
Net generation	12,035	12,339
Interchange		
Received	1	53
Delivered	48	318
Net	(47)	(265)
Purchases		
Non-Western	2,150	1,618
Total purchases	2,150	1,618
Total energy resources	14,138	13,692
Energy disposition		
Sales of electric energy		
Western sales	13,160	12,738
Project use sales	31	37
Total energy sales	13,191	12,775
Other		
Interproject sales	134	1
Total other	134	1
Total energy delivered	13,325	12,776
System and contractual losses	813	916
Total energy disposition	14,138	13,692

Facilities and Substations

Facility	FY 1999	FY 1998
Substations		
Number of substations	98	99
Number of transformers	125	125
Transformer capacity (kVA)	8,045,989	8,043,639
Land (fee)		
Acres	1,602.09	1,602.09
Hectares	648.62	648.62
Land (easement)		
Acres	74.14	74.14
Hectares	30.02	30.02
Withdrawal area		
Acres	21.00	21.00
Hectares	8.50	8.50
Buildings and communications sites		
Number of buildings	230	230
Number of communications sites	145	145
Land (fee)		
Acres	228.00	170.39
Hectares	92.31	68.98
Land (easement)		
Acres	337.9	337.9
Hectares	136.8	136.8
Withdrawal area		
Acres	2.00	2.00
Hectares	0.81	0.81

Transmission Lines

Voltage Rating	Iowa		Minnesota		Missouri		Montana	
	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998
345-kV								
Circuit miles	20.33	20.33	0.00	0.00	0.00	0.00	0.00	0.00
Circuit kilometers	32.71	32.71	0.00	0.00	0.00	0.00	0.00	0.00
Acres	358.21	376.90	0.00	0.00	0.00	0.00	0.00	0.00
Hectares	145.02	152.59	0.00	0.00	0.00	0.00	0.00	0.00
230-kV								
Circuit miles	164.52	164.52	247.33	247.33	0.00	0.00	559.95	559.95
Circuit kilometers	264.71	264.71	397.95	397.95	0.00	0.00	900.96	900.96
Acres	2,053.52	2,055.42	3,087.66	3,092.05	0.00	0.00	8,285.06	8,891.86
Hectares	831.39	832.16	1,250.07	1,251.84	0.00	0.00	3,354.28	3,599.95
161-kV								
Circuit miles	192.23	192.23	0.00	0.00	17.95	17.95	283.28	283.28
Circuit kilometers	309.30	309.30	0.00	0.00	28.88	28.88	455.80	455.80
Acres	2,321.05	2,334.23	0.00	0.00	219.74	222.39	4,625.62	5,146.02
Hectares	939.70	945.03	0.00	0.00	88.96	90.04	1,872.72	2,083.41
115-kV								
Circuit miles	0.00	0.00	14.99	14.99	0.00	0.00	529.31	529.31
Circuit kilometers	0.00	0.00	24.12	24.12	0.00	0.00	851.66	851.66
Acres	0.00	0.00	142.50	142.52	0.00	0.00	6,502.86	6,118.78
Hectares	0.00	0.00	57.69	57.7	0.00	0.00	2,632.74	2,477.24
100-kV								
Circuit miles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Circuit kilometers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acres	0.00	0.00	0.00	0.00	0.00	0.00	125.14	0.00
Hectares	0.00	0.00	0.00	0.00	0.00	0.00	50.66	0.00
69-kV and below								
Circuit miles	0.00	0.00	0.00	0.00	0.00	0.00	71.36	71.36
Circuit kilometers	0.00	0.00	0.00	0.00	0.00	0.00	114.82	114.82
Acres	0.00	0.00	1.73	0.00	0.00	0.00	596.81	553.27
Hectares	0.00	0.00	0.70	0.00	0.00	0.00	241.62	224.00
Totals								
Circuit miles	377.08	377.08	262.32	262.32	17.95	17.95	1,443.90	1,443.90
Circuit kilometers	606.72	606.72	422.07	422.07	28.88	28.88	2,323.24	2,323.24
Acres	4,732.78	4,766.55	3,231.89	3,234.57	219.74	222.39	20,135.49	20,709.93
Hectares	1,916.11	1,929.78	1,308.46	1,309.55	88.96	90.04	8,101.37	8,384.61

Transmission Lines, cont.

Voltage Rating	Nebraska		North Dakota		South Dakota		Total	
	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998
345-kV								
Circuit miles	136.99	136.99	40.74	40.74	260.33	260.33	458.39	458.39
Circuit kilometers	220.42	220.42	65.55	65.55	418.87	418.87	737.55	737.55
Acres	2,500.53	2,612.34	0.00	0.00	5,058.30	5,149.85	7,917.04	8,139.09
Hectares	1,012.36	1,057.63	0.00	0.00	2,047.90	2,084.96	3,205.29	3,295.19
230-kV								
Circuit miles	0.00	0.00	983.3	983.3	1,766.12	1,766.12	3,721.22	3,721.22
Circuit kilometers	0.00	0.00	1,582.13	1,582.13	2,841.69	2,841.69	5,987.44	5,987.44
Acres	0.00	0.00	13,066.39	13,131.44	17,224.93	17,596.31	43,717.56	44,767.08
Hectares	0.00	0.00	5,290.05	5,316.38	6,973.67	7,124.03	17,699.46	18,124.36
161-kV								
Circuit miles	0.00	0.00	0.00	0.00	0.00	0.00	493.46	493.46
Circuit kilometers	0.00	0.00	0.00	0.00	0.00	0.00	793.98	793.98
Acres	0.00	0.00	0.00	0.00	0.00	0.00	7,166.41	7,702.64
Hectares	0.00	0.00	0.00	0.00	0.00	0.00	2,901.39	3,118.48
115-kV								
Circuit miles	71.74	71.74	886.27	886.27	1,343.15	1,343.15	2,845.46	2,845.46
Circuit kilometers	115.43	115.43	1,426.01	1,426.01	2,161.13	2,161.13	4,578.35	4,578.35
Acres	524.62	529.67	10,816.40	10,885.59	12,190.09	12,276.77	30,176.47	29,953.33
Hectares	212.4	214.44	4,379.12	4,407.13	4,935.27	4,970.36	12,217.22	12,126.88
100-kV								
Circuit miles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Circuit kilometers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acres	0.00	0.00	0.00	0.00	0.00	0.00	125.14	0.00
Hectares	0.00	0.00	0.00	0.00	0.00	0.00	50.66	0.00
69-kV and below								
Circuit miles	0.00	0.00	148.36	148.36	7.06	7.06	226.78	226.78
Circuit kilometers	0.00	0.00	238.71	238.71	11.36	11.36	364.89	364.89
Acres	0.00	0.00	1,370.05	1,372.08	2.17	0.00	1,970.76	1,925.35
Hectares	0.00	0.00	554.68	555.5	0.88	0.00	797.88	779.5
Totals								
Circuit miles	208.73	208.73	2,058.67	2,058.67	3,376.66	3,376.66	7,745.31	7,745.31
Circuit kilometers	335.85	335.85	3,312.40	3,312.40	5,433.05	5,433.05	12,462.20	12,462.20
Acres	3,025.15	3,142.01	25,252.84	25,389.11	34,475.49	35,022.93	91,073.38	92,487.49
Hectares	1,224.76	1,272.07	10,223.84	10,279.01	13,957.72	14,179.36	36,821.23	37,444.41

Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability ¹ FY 1999 (MW)	Actual operating capability (MW)		Net generation (GWh) ²	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Montana									
Canyon Ferry	Reclamation	Missouri	Dec 53	3	60	60	60	421	469
Fort Peck	Corps	Missouri	Jul 43	5	218	211	211	1,079	1,242
Yellowtail ³	Reclamation	Big Horn	Aug 66	2	144	108	108	654	551
North Dakota									
Garrison	Corps	Missouri	Jan 56	5	546	484	484	2,607	2,644
South Dakota									
Big Bend	Corps	Missouri	Oct 64	8	538	467	467	1,090	1,227
Fort Randall	Corps	Missouri	Mar 54	8	387	370	370	2,199	1,997
Gavins Point	Corps	Missouri	Sep 56	3	122	111	111	860	831
Oahe	Corps	Missouri	Apr 62	7	786	728	728	3,125	3,379
Pick-Sloan Eastern Division total				41	2,801	2,539	2,539	12,035	12,340

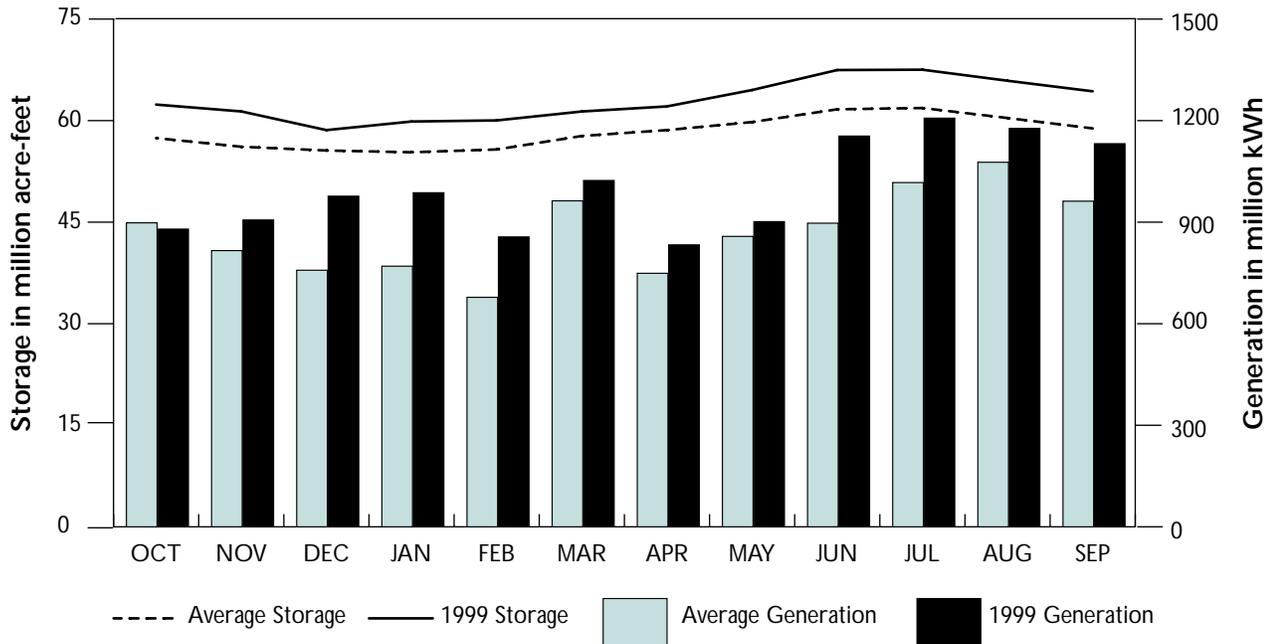
¹ Maximum operating capability is the maximum generating capability of the units at unity power factor without exceeding the specified heat rise on each unit and independent of water constraints.

² Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

³ Generation from units 1 and 2 is marketed by the Rocky Mountain Region. Generation from units 3 and 4 is marketed by the Upper Great Plains Region. For this table, one-half of the total capability and output is shown under this region.

Reclamation - Bureau of Reclamation, Department of the Interior
Corps - U.S. Army Corps of Engineers

Storage and Generation



Firm Power Rate Provisions

Fiscal year	Rate schedule designation	Capacity charge (\$/kW of billing demand)	Monthly Rate		Annual composite rate
			Energy charge not in excess of delivery obligations	Effective date	
1999	P-SED-F6	\$3.20	8.32 mills/kWh for all energy 3.38 mills/kWh for all energy above 60% load factor	10/1/94	14.23 mills/kWh

Transmission and Ancillary Services Rate Provisions

Fiscal year	Rate schedule designation	Rate
9/1/98-4/30/99	Integrated System Network Transmission Rate	Load ratio share of annual revenue requirements of \$95,725,420
	Integrated System Firm Point-to-Point Rate	\$2.87/kW-Mo
	Integrated System Nonfirm Point-to-Point Rate	3.93 m/kWh
	Regulation and Frequency Response Service	\$0.05/kW-Mo
	Operating Reserve—Spinning Reserve Service	\$0.12/kW-Mo
	Operating Reserve—Supplemental Reserve Service	\$0.12/kW-Mo
	Scheduling, System Control and Dispatch Service	\$46.06/Schedule/Day
Reactive Supply & Voltage Control	\$0.07/kW-Mo	
5/1/99-4/30/00	Integrated System Network Transmission Rate	Load ratio share of annual revenue requirements of \$102,877,706
	Integrated System Firm Point-to-Point Rate	\$2.92/kW-Mo
	Integrated System Nonfirm Point-to-Point Rate	4.00 m/kWh
	Regulation and Frequency Response Service	\$0.05/kW-Mo
	Operating Reserve—Spinning Reserve Service	\$0.12/kW-Mo
	Operating Reserve—Supplemental Reserve Service	\$0.12/kW-Mo
	Scheduling, System Control and Dispatch Service	\$42.54/Schedule/Day
Reactive Supply & Voltage Control	\$0.06/kW-Mo	

Marketing Plan Summary

Project	Expiration date
Pick-Sloan Missouri Basin Program— Eastern Division	Dec. 31, 2020

Firm and Nonfirm Sales by State

State	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Alabama						
Energy sales—MWh	0	21,380	21,380	0	127,025	127,025
Power revenues—\$	0	424,910	424,910	0	2,035,139	2,035,139
Colorado						
Energy sales—MWh	0	10,222	10,222	0	19,624	19,624
Power revenues—\$	0	256,013	256,013	0	532,999	532,999
Connecticut						
Energy sales—MWh	0	0	0	0	1,601	1,601
Power revenues—\$	0	0	0	0	33,894	33,894
Florida						
Energy sales—MWh	0	64,758	64,758	0	0	0
Power revenues—\$	0	1,715,326	1,715,326	0	0	0
Georgia						
Energy sales—MWh	0	0	0	0	24,865	24,865
Power revenues—\$	0	0	0	0	676,062	676,062
Idaho						
Energy sales—MWh	0	68,925	68,925	0	0	0
Power revenues—\$	0	1,217,323	1,217,323	0	0	0

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Firm and Nonfirm Sales by State, cont.

State	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Iowa						
Energy sales—MWh	1,199,888	235,855	1,435,743	1,205,322	594,855	1,800,177
Power revenues—\$	16,552,298	4,846,741	21,399,039	16,659,422	9,794,651	26,454,073
Louisiana						
Energy sales—MWh	0	16,028	16,028	0	0	0
Power revenues—\$	0	382,030	382,030	0	0	0
Massachusetts						
Energy sales—MWh	0	0	0	0	311	311
Power revenues—\$	0	0	0	0	37,890	37,890
Minnesota						
Energy sales—MWh	2,099,965	1,519,675	3,619,640	2,099,989	1,450,862	3,550,851
Power revenues—\$	28,755,242	31,551,706	60,306,948	28,768,057	28,183,018	56,951,075
Missouri						
Energy sales—MWh	0	1,166,001	1,166,001	0	505,112	505,112
Power revenues—\$	0	29,390,905	29,390,905	0	10,212,830	10,212,830
Montana						
Energy sales—MWh	690,002	187,790	877,792	706,840	299,165	1,006,005
Power revenues—\$	10,016,403	3,675,929	13,692,332	10,240,966	6,229,818	16,470,784
Nebraska						
Energy sales—MWh	1,803,755	226,516	2,030,271	1,824,815	326,072	2,150,887
Power revenues—\$	33,349,105	6,428,293	39,777,398	33,640,180	6,643,921	40,284,101
New Mexico						
Energy sales—MWh	0	7,600	7,600	0	0	0
Power revenues—\$	0	168,380	168,380	0	0	0
North Dakota						
Energy sales—MWh	1,086,231	132,161	1,218,392	1,085,984	126,154	1,212,138
Power revenues—\$	20,519,848	2,897,151	23,416,999	20,505,267	2,018,022	22,523,289
Oregon						
Energy sales—MWh	0	159,751	159,751	0	196,207	196,207
Power revenues—\$	0	3,293,084	3,293,084	0	3,993,136	3,993,136
South Dakota						
Energy sales—MWh	1,888,281	77,042	1,965,323	1,885,852	119,292	2,005,144
Power revenues—\$	26,844,351	1,654,954	28,499,305	26,855,979	2,306,675	29,162,654
Texas						
Energy sales—MWh	0	156,532	156,532	0	26,473	26,473
Power revenues—\$	0	2,809,173	2,809,173	0	486,112	486,112
Washington						
Energy sales—MWh	0	30,328	30,328	0	15,570	15,570
Power revenues—\$	0	719,646	719,646	0	556,066	556,066
Wisconsin						
Energy sales—MWh	0	45,705	45,705	0	64,758	64,758
Power revenues—\$	0	712,838	712,838	0	1,267,616	1,267,616
Canada						
Energy sales—MWh	0	265,787	265,787	0	31,540	31,540
Power revenues—\$	0	4,443,062	4,443,062	0	684,064	684,064
Total ¹						
Energy sales—MWh	8,768,122	4,392,056	13,160,178	8,808,802	3,929,486	12,738,288
Power revenues—\$	136,037,247	96,587,464	232,624,711	136,669,871	75,691,913	212,361,784

¹ Excludes energy sales and power revenues to interproject and project use customers.

Firm and Nonfirm Sales by Customer Category

Type of customer	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Municipalities						
Energy sales—MWh	3,562,801	60,030	3,622,831	3,578,621	70,277	3,648,898
Revenue—\$	52,006,135	1,434,756	53,440,891	52,295,914	1,191,450	53,487,364
Cooperatives						
Energy sales—MWh	3,591,907	121,140	3,713,047	3,622,168	393,150	4,015,318
Revenue—\$	55,219,131	2,484,243	57,703,374	55,671,517	6,786,831	62,458,348
Federal agencies						
Energy sales—MWh	64,192	0	64,192	39,694	0	39,694
Revenue—\$	921,338	0	921,338	552,864	0	552,864
State agencies						
Energy sales—MWh	412,121	0	412,121	413,999	0	413,999
Revenue—\$	5,831,388	0	5,831,388	5,866,955	0	5,866,955
Public utility districts						
Energy sales—MWh	1,133,953	323,342	1,457,295	1,150,353	379,263	1,529,616
Revenue—\$	22,029,392	7,856,750	29,886,142	22,244,715	7,632,607	29,877,322
Irrigation district						
Energy sales—MWh	3,148	0	3,148	3,967	0	3,967
Revenue—\$	29,863	0	29,863	37,906	0	37,906
Investor-owned utilities						
Energy sales—MWh	0	2,322,136	2,322,136	0	2,608,255	2,608,255
Revenue—\$	0	51,899,443	51,899,443	0	50,110,304	50,110,304
Power marketers						
Energy sales—MWh	0	1,565,408	1,565,408	0	478,541	478,541
Revenue—\$	0	32,912,272	32,912,272	0	9,970,721	9,970,721
Total						
Energy sales—MWh	8,768,122	4,392,056	13,160,178	8,808,802	3,929,486	12,738,288
Revenue—\$	136,037,247	96,587,464	232,624,711	136,669,871	75,691,913	212,361,784

Note: Excludes energy sales and power revenues to interproject and project use customers, because these power sales are not based on firm or nonfirm power rates.

Top 5 Customers in Firm Energy Sales

Rank	Customer	(MWh)	Percent of total firm sales
1	East River Power Cooperative	727,630	8
2	Nebraska Public Power District	718,983	8
3	Omaha Public Power District	401,133	5
4	Minnkota Power Coop.	373,972	4
5	Central Montana Electric Power	357,383	4
Total		2,579,101	29

Top 5 Customers in Firm Power Revenue

Rank	Customer	(\$)	Percent of total firm revenue
1	Nebraska Public Power District	16,559,052	12
2	East River Power Cooperative	6,733,785	5
3	Basin Electric Power Cooperative	5,396,220	4
4	Central Montana Electric	5,277,848	4
5	Omaha Public Power District	5,266,954	4
Total		39,233,859	29

Top 5 Customers in Nonfirm Energy Sales

Rank	Customer	(MWh)	Percent of total nonfirm sales
1	Utilicorp Corporation	605,828	14
2	Northern States Power Co.	528,536	12
3	Minnesota Power	370,044	8
4	Aquila Power	363,810	8
5	Cargill-Alliant	230,721	5
Total		2,098,939	48

Top 5 Customers in Nonfirm Power Revenue

Rank	Customer	(\$)	Percent of total nonfirm revenue
1	Utilicorp Corporation	15,272,879	16
2	Northern States Power Co.	11,973,790	12
3	Aquila Power	9,475,923	10
4	Minnesota Power	7,650,481	8
5	Cargill-Alliant	3,870,116	4
Total		48,243,189	50

Sales by State and Customer Category

State/Customer category	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Alabama				
Power marketers	21,380	424,910	127,025	2,035,139
Total Alabama	21,380	424,910	127,025	2,035,139
Colorado				
Cooperatives	0	0	5,110	97,254
Investor-owned utilities	5,752	138,288	1,950	38,300
Power marketers	4,470	117,725	12,564	397,445
Interproject sales	131,051	2,496,787	1,230	38,395
Total Colorado	141,273	2,752,800	20,854	571,394
Connecticut				
Power marketers	0	0	1,601	33,894
Total Connecticut	0	0	1,601	33,894
Florida				
Power marketers	64,758	1,715,326	0	0
Total Florida	64,758	1,715,326	0	0
Georgia				
Power marketers	0	0	24,865	676,062
Total Georgia	0	0	24,865	676,062
Idaho				
Investor-owned utilities	68,925	1,217,323	0	0
Total Idaho	68,925	1,217,323	0	0
Iowa				
Municipalities	677,056	9,582,169	685,047	9,723,462
Cooperatives	525,548	7,020,161	522,910	6,993,600
Investor-owned utilities	57,762	1,262,962	592,220	9,737,011
Power marketers	175,377	3,533,747	0	0
Total Iowa	1,435,743	21,399,039	1,800,177	26,454,073

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Sales by State and Customer Category, cont.

State/Customer category	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Louisiana				
Investor-owned utilities	16,028	382,030	0	0
Total Louisiana	16,028	382,030	0	0
Massachusetts				
Investor-owned utilities	0	0	311	37,890
Total Massachusetts	0	0	311	37,890
Minnesota				
Municipalities	1,476,636	20,299,518	1,476,063	20,208,155
Cooperatives	657,648	9,319,704	796,859	12,198,200
State agencies	42,741	576,601	43,916	593,733
Public utility districts	117,812	2,271,587	27,961	559,781
Investor-owned utilities	1,043,562	22,887,549	1,140,659	21,923,878
Power marketers	281,241	4,951,989	65,393	1,467,328
Total Minnesota	3,619,640	60,306,948	3,550,851	56,951,075
Missouri				
Cooperatives	0	0	79,413	1,182,520
Investor-owned utilities	659,666	16,326,016	244,891	5,118,893
Power marketers	506,335	13,064,889	180,808	3,911,417
Total Missouri	1,166,001	29,390,905	505,112	10,212,830
Montana				
Cooperatives	681,215	9,945,189	695,282	10,152,938
Federal agencies	2,003	5,167	3,274	8,327
State agencies	3,636	36,184	4,317	41,795
Irrigation districts	3,148	29,863	3,967	37,906
Investor-owned utilities	187,790	3,675,929	299,165	6,229,818
Project use sales	20,336	52,122	24,918	64,880
Total Montana	898,128	13,744,454	1,030,923	16,535,664
Nebraska				
Municipalities	565,771	10,383,279	582,953	10,327,129
State agencies	141,837	1,912,134	140,197	1,897,352
Public utility districts	1,288,696	26,761,699	1,427,397	28,055,900
Power marketers	33,967	720,286	340	3,720
Project use sales	2,723	6,139	3,084	7,861
Total Nebraska	2,032,994	39,783,537	2,153,971	40,291,962
New Mexico				
Investor-owned utilities	7,600	168,380	0	0
Total New Mexico	7,600	168,380	0	0
North Dakota				
Municipalities	190,226	2,802,349	189,627	2,802,000
Cooperatives	858,200	17,659,034	904,873	17,765,091
Federal agencies	2,204	33,624	3,141	50,234
State agencies	99,189	1,477,527	99,075	1,467,762
Investor-owned utilities	27,438	614,190	7,490	162,662
Power marketers	41,135	830,275	7,932	275,540
Project use sales	5,168	27,760	5,854	30,070
Total North Dakota	1,223,560	23,444,759	1,217,992	22,553,359

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Sales by State and Customer Category, cont.

State/Customer category	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Oregon				
Investor-owned utilities	135,011	2,616,214	196,207	3,993,136
Power marketers	24,740	676,870	0	0
Total Oregon	159,751	3,293,084	196,207	3,993,136
South Dakota				
Municipalities	713,142	10,373,576	715,208	10,426,618
Cooperatives	990,436	13,759,286	1,010,871	14,068,745
Federal agencies	59,985	882,547	33,279	494,303
State agencies	124,718	1,828,942	126,494	1,866,313
Public utility districts	26,061	479,051	69,805	1,187,281
Investor-owned	50,981	1,175,903	49,487	1,119,394
Project use sales	2,778	26,927	2,763	33,393
Total South Dakota	1,968,101	28,526,232	2,007,907	29,196,047
Texas				
Investor-owned utilities	10,314	375,980	0	0
Power marketers	146,218	2,433,193	26,473	486,112
Total Texas	156,532	2,809,173	26,473	486,112
Utah				
Interproject sales	3,244	71,577	0	0
Total Utah	3,244	71,577	0	0
Washington				
Investor-owned utilities	30,328	719,646	15,570	556,066
Total Washington	30,328	719,646	15,570	556,066
Wisconsin				
Public utility districts	24,726	373,805	4,453	74,360
Investor-owned utilities	20,979	339,033	60,305	1,193,256
Total Wisconsin	45,705	712,838	64,758	1,267,616
Canada				
Power marketers	265,787	4,443,062	31,540	684,064
Total Canada	265,787	4,443,062	31,540	684,064
Total Pick-Sloan Missouri Basin—Eastern Division				
Municipalities	3,622,831	53,440,891	3,648,898	53,487,364
Cooperatives	3,713,047	57,703,374	4,015,318	62,458,348
Federal agencies	64,192	921,338	39,694	552,864
State agencies	412,121	5,831,388	413,999	5,866,955
Public utility districts	1,457,295	29,886,142	1,529,616	29,877,322
Irrigation districts	3,148	29,863	3,967	37,906
Investor-owned utilities	2,322,136	51,899,443	2,608,255	50,110,304
Power marketers	1,565,408	32,912,272	478,541	9,970,721
Interproject sales	134,295	2,568,364	1,230	38,395
Project use sales	31,005	112,948	36,619	136,204
Total sales Eastern Div.	13,325,478	235,306,023	12,776,137	212,536,383

Purchased Transmission

Supplier	FY 1999 Costs (\$000)	FY 1998 Costs (\$000)
Non-Western suppliers		
Basin Electric Power Cooperative	196	142
Central Iowa Power Cooperative	5	5
Central Power Electric Cooperative	10	10
Kandiyohi Power Cooperative	5	0
MAPPCOR	842	1,279
Midamerican Energy Company	789	792
Mid-Yellowstone Electric Coop.	13	20
Minnesota Valley Cooperative	14	14
Minnkota Power Cooperative, Inc.	204	204
Montana Power Company	2,644	2,222
Montana-Dakota Utilities Company	291	293
Nebraska Public Power District	680	554
Northern Plains Electric Cooperative	1	0
Northwestern Public Service Company	51	51
Omaha Public Power District	317	333
Otter Tail Power Company	23	25
Tri-County Electric Cooperative	0	1
United Power Association	2	7
Subtotal Non-Western suppliers	6,087	5,952
Western suppliers		
Loveland Area Projects	122	5
Subtotal Western suppliers	122	5
Total Pick-Sloan—Eastern Division	6,209	5,957

Purchased Power

Supplier	FY 1999		FY 1998	
	Energy (MWh)	Costs (\$000)	Energy (MWh)	Costs (\$000)
Alliant Services Company	3,433	94	1,888	47
Ames, Iowa	0	0	1	0
Aquila Power	9,881	530	26,176	1,033
Associated Electric Cooperative, Inc.	0	0	1,700	24
Basin Electric Power Coop.	1,211,856	23,052	649,588	11,372
Cargill-Alliant, LLC	463	6	3,040	40
Conagra Energy Services	20	1	0	0
Continental Power Exchange	0	0	22,335	534
Dairyland Power Coop.	0	0	32,048	364
Enron Power Marketing Group	200	3	3,892	59
Gen-Sys Energy	7,708	111	0	0
Great River Energy	125	2	0	0
Heartland Consumers' Power District	129,920	2,043	97,201	1,600
IES Utilities, Inc.	0	0	3,850	45
Kansas City Power & Light	6,260	83	9,300	116
Manitoba Hydro	391	7	22,486	334
Lincoln Electric System	7,185	96	5,950	79
Madison Gas & Electric	60	1	0	0
Minnesota Municipal Power Agency	0	0	200	8
Minnesota Power & Light	2,860	564	20,927	362
MidAmerican Energy Company	80,829	1,680	7,720	135
Minnkota Power Coop.	28,158	358	49,245	567
Missouri River Energy Services	45,756	607	51,800	520
Montana Power Co.	30,306	85	33,783	704
Montana-Dakota Utilities Co.	1,582	20	14,760	235
Mun. Energy Agency of Nebraska	0	0	325	5
Muscatine	1	6	575	8
Nebraska Public Power District	40,957	522	29,718	435
Noram Energy Services	0	0	200	2
Northern/AES Energy	3,751	76	0	0
Northern States Power Co.	4,358	61	51,963	635
Northwestern Public Service	308,633	4,498	274,353	3,923
Omaha Public Power District	191,235	2,403	98,043	1,130
Otter Tail Power Company	22,059	1,126	19,116	324
PacifiCorp	50	2	8,497	231
Puget Sound Power & Light Co.	0	0	800	11
PowerEx	1,144	135	0	0
Rainbow Energy Marketing Corporation	185	44	0	0
Reliant Energy Services	276	125	0	0
Rocky Mountain Generation Coop.	860	24	2,920	44
Saskatchewan Power Company	1,100	28	0	0
Sonat Power Marketing Inc.	800	12	29,931	347
South. Minnesota Mun. Power Agency	722	9	28,756	354
St. Joseph Light & Power Company	2	1	45	1
Tenaska Power Services Co	200	3	1,375	18
The Energy Authority	1,120	18	0	0
Transalta Marketing Corporation	387	26	0	0
United Power Assn.	700	10	10,620	154
Utilicorp United	3,900	89	3,145	63
Western Resources	245	8	0	0
Total Non-Western	2,149,678	38,569	1,618,272	25,863
Total Pick Sloan—Eastern Division	2,149,678	38,569	1,618,272	25,863

Customers by State and Customer Category

State/Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Alabama								
Power marketers	0	0	1	1	0	0	1	1
Colorado								
Cooperatives	0	0	0	0	0	0	1	1
Investor-owned utilities	0	0	1	1	0	0	1	1
Power marketers	0	0	1	1	0	0	1	1
Connecticut								
Power marketers	0	0	0	0	0	0	1	1
Florida								
Power marketers	0	0	1	1	0	0	0	0
Georgia								
Power marketers	0	0	0	0	0	0	1	1
Idaho								
Investor-owned utilities	0	0	1	1	0	0	0	0
Iowa								
Municipalities	44	0	1	45	43	1	1	45
Cooperatives	4	0	0	4	4	0	0	4
Investor-owned utilities	0	0	1	1	0	0	3	3
Power marketers	0	0	1	1	0	0	0	0
Louisiana								
Investor-owned utilities	0	0	1	1	0	0	0	0
Massachusetts								
Investor-owned utilities	0	0	0	0	0	0	1	1
Minnesota								
Municipalities	45	1	1	47	45	1	1	47
Cooperatives ¹	15	1	1	17	2	2	1	5
State agencies	3	0	0	3	3	0	0	3
Public utility districts	0	0	2	2	0	0	1	1
Investor-owned utilities	0	0	3	3	0	0	3	3
Power marketers	0	0	2	2	0	0	2	2
Missouri								
Cooperatives	0	0	0	0	0	0	1	1
Investor-owned utilities	0	0	3	3	0	0	4	4
Power marketers	0	0	4	4	0	0	2	2
Montana								
Cooperatives	3	0	0	3	3	0	0	3
Federal agencies	2	0	0	2	2	0	0	2
State agencies	2	0	0	2	2	0	0	2
Irrigation district	3	0	0	3	3	0	0	3
Investor-owned utilities	0	0	1	1	0	0	1	1
Nebraska								
Municipalities	49	2	0	51	50	1	0	51
State agencies	8	0	0	8	8	0	0	8
Public utility districts	0	3	0	3	0	3	0	3
Power marketers	0	0	1	1	0	0	1	1
New Mexico								
Investor-owned utilities	0	0	1	1	0	0	0	0
North Dakota								
Municipalities	11	0	0	11	11	0	0	11
Cooperatives	5	2	0	7	5	2	0	7
Federal agencies	1	0	0	1	1	0	0	1
State agencies	12	0	0	12	12	0	0	12
Investor-owned utilities	0	0	1	1	0	0	1	1
Power marketers	0	0	1	1	0	0	1	1
Oregon								
Investor-owned utilities	0	0	1	1	0	0	1	1
Power marketers	0	0	1	1	0	0	0	0
South Dakota								
Municipalities	33	0	0	33	33	0	0	33
Cooperatives	5	0	0	5	5	0	0	5
Federal agencies	1	0	0	1	1	0	0	1
State agencies	10	0	0	10	10	0	0	10
Public utility districts	0	0	2	2	0	0	2	2
Investor-owned utilities	0	0	1	1	0	0	1	1

Continued on next page.

Customers by State and Customer Category, cont.

State/Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Texas								
Investor-owned utilities	0	0	1	1	0	0	0	0
Power marketers	0	0	3	3	0	0	3	3
Washington								
Investor-owned utilities	0	0	1	1	0	0	1	1
Wisconsin								
Investor-owned utilities	0	0	2	2	0	0	4	4
Public utility districts	0	0	1	1	0	0	1	1
Canada								
Power marketers	0	0	4	4	0	0	3	3
Subtotal	256	9	47	312	243	10	46	299
Project use sales	29	0	0	29	29	0	0	29
Interproject sales	0	1	1	2	0	0	1	1
Total Western	285	10	48	343	272	10	47	329
Summary by state								
Alabama	0	0	1	1	0	0	1	1
Colorado	0	0	2	2	0	0	3	3
Connecticut	0	0	0	0	0	0	1	1
Florida	0	0	1	1	0	0	0	0
Georgia	0	0	0	0	0	0	1	1
Idaho	0	0	1	1	0	0	0	0
Iowa	48	0	3	51	47	1	4	52
Louisiana	0	0	1	1	0	0	0	0
Massachusetts	0	0	0	0	0	0	1	1
Minnesota	63	2	9	74	50	3	8	61
Missouri	0	0	7	7	0	0	7	7
Montana	10	0	1	11	10	0	1	11
Nebraska	57	5	1	63	58	4	1	63
New Mexico	0	0	1	1	0	0	0	0
North Dakota	29	2	2	33	29	2	2	33
Oregon	0	0	2	2	0	0	1	1
South Dakota	49	0	3	52	49	0	3	52
Texas	0	0	4	4	0	0	3	3
Washington	0	0	1	1	0	0	1	1
Wisconsin	0	0	3	3	0	0	5	5
Canada	0	0	4	4	0	0	3	3
Total	256	9	47	312	243	10	46	299
Summary by customer class								
Municipalities	182	3	2	187	182	3	2	187
Cooperatives ¹	32	3	1	36	19	4	3	26
Federal agencies	4	0	0	4	4	0	0	4
State agencies	35	0	0	35	35	0	0	35
Public utility districts	0	3	5	8	0	3	4	7
Irrigation districts	3	0	0	3	3	0	0	3
Investor-owned utilities	0	0	19	19	0	0	21	21
Power marketers	0	0	20	20	0	0	16	16
Total	256	9	47	312	243	10	46	299
Project use sales	29	0	0	29	29	0	0	29
Interdepartment sales	0	1	1	2	0	0	1	1
Total Western	285	10	48	343	272	10	47	329

¹ The number of cooperative customers in Minnesota increased because the Western allocation was transferred to individual coops in December 1998.

Note: In FY 1999, Western sold P-SMB—ED power to 265 preference customers (col 1+2); 9 of these customers also purchase nonfirm power (col. 2). We sold P-SMB—ED project use power to 29 customers and interdepartment power to two customers, for a total of 295 firm customers. Nonfirm sales were made to 48 other customers (col. 3), such as power marketers and investor-owned utilities. Detailed information on each customer is listed in the P-SMB—ED Power Sales and Revenue table.

Power Sales and Revenue

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
	Municipalities					
Iowa						
Akron	2,901	1,675	9,941	143,553	10,318	148,046
Alta	2,160	1,873	9,854	134,640	9,854	134,674
Alton	1,729	1,311	7,436	104,353	7,436	104,353
Anita	1,581	1,249	6,893	94,250	6,823	93,469
Anthon	259	315	1,281	17,773	1,303	18,295
Atlantic	8,071	5,981	33,266	456,725	34,645	478,901
Aurelia	394	546	2,095	29,192	1,993	27,968
Breda	804	722	3,382	50,930	3,461	52,014
Coon Rapids	2,781	2,500	14,415	201,865	15,780	220,486
Corning	3,852	2,517	14,364	202,124	14,364	202,657
Denison	15,533	12,570	79,236	1,139,110	79,236	1,139,653
Fonda	302	495	1,733	26,518	1,741	26,573
Fontanelle	1,158	1,099	5,251	73,959	5,222	73,725
Glidden	1,333	868	4,675	65,715	5,013	70,949
Graettinger	1,251	1,083	5,716	79,000	5,716	79,020
Harlan	10,348	7,162	42,084	572,033	45,965	651,981
Hartley	3,086	2,732	15,591	211,363	15,591	211,363
Hawarden	5,247	3,434	22,893	313,811	22,893	314,022
Hinton	818	664	2,334	35,357	2,789	42,674
Kimballton	599	474	2,239	31,508	2,239	31,966
Lake Park	1,605	1,699	8,128	113,166	8,020	111,811
Lake View	3,730	3,342	15,522	229,482	15,867	236,823
Laurens	3,282	2,648	14,790	202,007	14,790	202,038
Lenox	2,284	2,040	10,654	145,957	10,654	145,990
Manilla	1,383	1,315	6,579	91,109	6,734	93,181
Manning	2,622	2,185	14,405	187,542	14,941	194,860
Mapleton	2,736	1,900	10,669	146,209	10,987	152,308
Milford	2,623	2,472	12,108	170,038	12,108	170,053
Muscatine	0	0	2,716	50,032	235	4,840
Neola	322	263	1,117	16,007	1,182	17,269
Onawa	6,276	4,319	23,746	329,648	24,797	347,215
Orange City	6,996	5,516	33,057	453,821	33,057	453,821
Paullina	1,753	1,361	7,590	106,398	7,574	106,195
Primghar	1,383	1,165	6,072	85,297	6,072	85,297
Remsen	2,519	1,931	10,927	151,423	10,927	151,432
Rock Rapids	4,741	3,996	21,785	299,502	21,785	299,503
Sanborn	2,109	2,029	11,644	155,820	11,644	155,820
Shelby	883	961	4,277	59,842	4,250	59,829
Sibley	3,353	3,518	17,316	235,603	17,316	235,603
Sioux Center	7,150	5,308	33,329	452,356	33,329	452,356
Spencer	20,228	17,248	94,312	1,466,635	94,312	1,466,635
Stanton	981	1,192	5,089	76,456	5,111	76,713
Villisca	2,440	1,727	9,841	135,885	9,967	137,603
Wall Lake	1,411	1,353	6,012	89,785	6,314	94,810
Woodbine	2,366	1,977	10,692	148,370	10,692	148,668
Subtotal Iowa			677,056	9,582,169	685,047	9,723,462
Minnesota						
Ada	2,627	2,731	13,507	183,373	13,099	179,209
Adrian	1,712	1,823	9,226	125,328	9,226	125,337
Alexandria	17,185	17,084	100,481	1,332,348	100,481	1,332,120
Barnesville	1,992	2,314	12,310	164,593	12,310	164,655
Benson	6,044	4,532	27,902	378,669	28,042	380,739
Breckenridge	5,741	4,995	30,166	403,601	30,166	403,727
Detroit Lakes	12,716	12,738	72,694	969,059	72,694	969,059
East Grand Forks	13,210	13,817	76,237	1,083,868	76,237	1,083,868
Elbow Lake	1,873	2,025	10,013	139,948	10,013	139,948
Fairfax	1,849	1,755	8,290	114,837	8,704	121,403
Fosston	2,420	2,648	13,817	199,886	13,817	199,886
Granite Falls	1,313	1,929	7,125	108,172	7,991	119,630
Halstad	872	1,299	5,453	80,586	5,453	80,586
Hawley	1,729	1,649	8,871	130,187	8,871	130,187
Henning	864	1,124	5,052	69,994	5,052	69,994
Hutchinson	0	0	210	5,460	90	2,970
Jackson	5,920	4,412	26,172	360,532	26,172	360,532
Kandiyohi	613	733	3,270	48,240	3,270	48,345
Lakefield	2,469	2,029	11,312	155,839	11,227	154,849
Lake Park	602	794	3,756	51,461	3,756	51,461

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Litchfield	13,298	11,201	73,000	968,596	73,000	968,596
Luverne	9,140	8,427	49,491	659,197	48,323	647,721
Madison	4,115	2,180	13,829	206,420	14,402	217,690
Marshall	23,336	14,857	134,900	1,727,917	134,900	1,727,916
Melrose	5,595	5,905	36,494	476,737	36,494	476,737
Moorhead	40,425	38,934	237,119	3,379,512	237,119	3,379,512
Mountain Lake	983	1,211	5,067	71,020	5,220	72,503
Newfolden	549	593	2,797	38,981	2,875	39,479
Nielsville	156	184	717	10,173	694	9,824
Olivia	4,801	4,265	23,284	315,157	23,284	315,157
Ortonville	5,284	4,246	23,332	317,402	23,386	322,221
Redwood Falls	9,310	8,071	46,275	628,137	46,275	628,137
St. James	7,590	5,241	37,443	491,913	37,443	490,992
Sauk Centre	4,703	4,429	25,801	342,104	25,801	341,627
Shelly	393	368	1,872	25,991	1,754	24,386
Sleepy Eye	2,500	900	8,671	117,848	8,671	117,848
Springfield	986	1,314	24,811	480,843	24,377	379,103
Staples	841	1,443	6,859	90,891	6,859	90,891
Stephen	1,037	1,311	6,174	90,768	6,174	90,769
Thief River Falls	13,534	12,738	69,655	1,012,103	69,655	1,012,103
Tyler	1,778	1,807	8,738	118,484	9,074	123,208
Wadena	7,258	8,283	44,674	596,485	44,674	596,485
Warren	2,277	2,704	13,214	193,343	13,214	193,343
Westbrook	1,441	1,561	7,415	101,890	7,352	100,698
Willmar	6,266	5,533	31,986	429,667	31,986	429,667
Windom	8,080	5,858	36,227	492,204	35,459	483,283
Worthington	11,413	9,541	60,927	809,754	60,927	809,754
Subtotal Minnesota			1,476,636	20,299,518	1,476,063	20,208,155
Nebraska						
Ansley	78	68	346	4,707	356	4,847
Arnold	1,293	1,127	5,583	76,594	5,827	80,053
Auburn	3,248	2,426	12,532	187,349	13,139	197,733
Beatrice	2,871	1,849	11,326	165,248	11,584	170,890
Beaver City	311	252	1,162	16,155	1,230	17,215
Blue Hill	1,399	895	4,670	64,906	5,067	70,864
Broken Bow	2,525	1,866	10,590	144,133	11,215	152,990
Burwell	591	478	2,406	33,353	2,438	34,110
Callaway	881	703	3,692	51,062	3,932	54,242
Cambridge	534	468	2,254	31,110	2,385	33,301
Crete	2,700	1,963	13,411	180,605	13,411	180,605
Curtis	450	306	1,730	23,915	1,806	24,956
David City	1,313	1,311	6,202	91,116	6,350	93,920
Deshler	617	362	2,022	28,129	2,312	32,079
De Witt	589	561	2,711	40,600	2,754	41,792
Fairbury	3,494	2,149	13,314	180,224	13,942	190,445
Franklin	547	522	2,381	33,213	2,385	33,663
Fremont	5,000	5,000	26,856	384,639	27,603	397,251
Grand Island	9,550	5,338	34,820	485,842	34,820	485,842
Hastings	11,853	6,460	49,001	661,725	48,958	659,503
Indianola	92	92	407	6,051	431	6,462
Laurel	547	484	2,417	35,584	2,432	36,043
Lincoln	108,632	42,549	176,395	4,748,306	185,166	4,549,873
Lyons	569	505	2,437	36,157	2,577	38,426
Madison	0	0	10,851	197,233	10,851	197,233
Nebraska City	8,599	5,632	37,969	545,321	39,246	569,290
Neligh	295	295	1,297	17,991	1,351	18,819
Ord	1,234	1,188	5,179	76,913	5,464	81,711
Oxford	579	450	2,280	31,431	2,448	34,028
Pender	696	567	2,795	39,244	2,847	40,353
Pierce	257	257	1,140	15,770	1,178	16,403
Plainview	661	518	2,502	34,968	2,710	38,068
Randolph	0	0	1,751	33,145	1,751	33,145
Red Cloud	656	576	2,694	37,077	2,862	40,037
Sargent	407	454	1,827	25,569	1,841	26,023
Schuyler	3,945	4,229	24,320	318,515	24,150	318,437
Shickley	59	59	234	3,400	265	3,831
South Sioux City	0	0	21,368	410,638	21,368	410,638
Spalding	1,076	855	4,095	61,467	4,287	64,933
Spencer	93	93	376	5,398	391	5,561

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Stuart	217	307	1,223	16,718	1,263	17,263
Syracuse	268	268	1,266	18,771	1,266	18,749
Tecumseh	989	724	4,133	60,701	3,630	54,324
Wahoo	2,093	1,979	9,898	133,720	10,434	142,017
Wakefield	0	0	3,302	59,351	3,302	59,351
Wayne	1,929	1,794	10,148	146,301	10,148	146,465
West Point	1,250	764	4,786	65,264	5,014	68,902
Wilber	2,465	1,481	8,188	113,559	8,882	124,436
Winside	605	477	2,441	36,397	2,545	38,550
Wisner	2,592	2,487	10,385	158,405	10,605	160,943
Wood River	156	156	658	9,289	734	10,514
Subtotal Nebraska			565,771	10,383,279	582,953	10,327,129
North Dakota						
Cavalier	2,716	4,296	18,058	262,864	17,830	260,667
Grafton	6,716	7,343	37,458	541,785	37,458	541,785
Hillsboro	2,233	3,347	15,310	206,079	15,310	206,079
Hope	481	600	2,672	39,717	2,672	39,717
Lakota	1,533	2,449	11,004	166,463	10,751	163,447
Maddock	478	625	2,586	36,923	2,586	36,923
Northwood	1,654	2,448	11,544	167,707	11,473	166,822
Park River	2,519	3,272	15,725	227,575	15,725	227,575
Riverdale	342	507	1,763	27,068	1,709	26,342
Sharon	237	306	1,272	19,015	1,272	19,015
Valley City	11,700	15,600	72,834	1,107,153	72,841	1,113,628
Subtotal North Dakota			190,226	2,802,349	189,627	2,802,000
South Dakota						
Aberdeen	943	442	2,210	34,359	2,370	35,642
Arlington	1,367	1,515	7,629	103,178	7,692	103,570
Aurora	363	411	1,825	25,769	1,706	24,245
Badger	322	368	1,363	19,737	1,218	18,058
Beresford	3,026	2,143	12,805	200,353	12,805	199,838
Big Stone City	1,679	1,549	10,260	134,118	10,260	134,120
Brookings	19,763	17,572	108,140	1,545,280	108,140	1,545,280
Bryant	508	582	2,524	37,260	2,405	35,665
Burke	1,284	1,326	6,219	85,617	6,261	86,542
Colman	872	896	4,169	58,091	4,232	58,176
Estelline	906	1,229	5,284	72,083	5,015	68,505
Faith	1,190	1,549	5,949	91,889	6,142	95,927
Flandreau	2,905	2,714	15,229	231,740	15,229	231,740
Fort Pierre	3,135	2,534	13,010	208,478	13,010	209,268
Groton	1,975	2,023	10,262	150,992	9,862	145,836
Hecla	661	744	3,476	47,716	3,463	47,638
Howard	2,074	1,479	8,701	119,599	7,978	111,817
Langford	566	429	2,312	34,459	2,258	33,777
Madison	9,802	9,258	49,404	669,178	51,371	692,898
McLaughlin	1,649	1,734	6,632	96,991	6,849	100,500
Miller	4,115	4,633	18,939	280,369	19,608	293,353
Parker	2,042	1,914	8,941	123,239	9,334	129,654
Pickstown	311	325	1,576	21,742	1,576	21,742
Pierre	27,870	20,410	119,184	1,855,648	119,184	1,870,379
Plankinton	1,222	1,593	6,919	96,106	6,522	90,240
Sioux Falls	8,264	7,093	45,501	645,522	45,501	645,522
Tyndall	2,007	1,653	8,246	130,941	8,202	128,610
Vermillion	11,265	6,713	43,428	607,848	43,776	615,337
Volga	1,749	1,464	10,961	140,561	11,049	142,118
Watertown	25,977	20,935	129,354	1,869,239	129,354	1,869,239
Wessington Springs	1,852	1,723	8,242	114,405	8,105	112,726
White	130	237	934	12,756	891	12,236
Winner	7,262	6,612	33,514	508,313	33,840	516,420
Subtotal South Dakota			713,142	10,373,576	715,208	10,426,618
Total municipalities			3,622,831	53,440,891	3,648,898	53,487,364

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Rural electric cooperatives						
Colorado						
Tri-State Generation & Transmission Assn.	0	0	0	0	5,110	97,254
Subtotal Colorado			0	0	5,110	97,254
Iowa						
Central Iowa Power Coop.	12,335	17,370	86,941	1,154,000	84,299	1,127,378
Corn Belt Power Coop.	24,504	28,559	138,584	1,851,602	138,584	1,851,602
L&O Power Coop.	11,277	16,758	71,017	966,961	71,017	966,961
Northwest Iowa Power Coop.	39,183	48,315	229,006	3,047,598	229,010	3,047,659
Subtotal Iowa			525,548	7,020,161	522,910	6,993,600
Minnesota						
Agralite Electric Cooperative	8,172	9,966	27,287	384,655	0	0
Brown County Rural Electric Cooperative Power Assn. ¹	5,488	6,693	18,948	262,893	0	0
Dairyland Power Coop.	0	0	124,381	1,709,475	489,796	6,757,396
Federated Rural Electric Association	0	0	49,808	894,137	64,172	1,507,156
Great River Energy ¹	8,266	9,898	29,856	406,983	0	0
Itasca-Mantrap Coop Elec Assn.	0	0	51,966	707,129	0	0
Kandiyohi Power Cooperative	4,279	4,836	24,875	334,765	23,519	320,729
Lake Region Coop. Electrical Assn.	4,789	6,031	23,256	302,323	0	0
McLeod Cooperative Power Assn.	90,160	109,771	49,153	684,904	0	0
Meeker Cooperative Light & Power	2,144	2,615	7,412	102,632	0	0
Minnesota Valley Coop.	4,682	5,709	16,381	225,692	0	0
Nobles Cooperative Electric	9,841	12,347	53,550	783,833	53,550	783,374
Redwood Electric Cooperative	10,051	12,258	35,177	486,017	0	0
Runestone Electric Association	5,329	6,499	18,829	259,324	0	0
South Central Electric Association	8,878	10,827	31,149	428,771	0	0
Stearns Cooperative Electric Assn.	7,051	8,599	25,689	350,376	0	0
Todd-Wadena Electric Cooperative	9,776	11,922	32,677	459,014	0	0
United Power Assn. ¹	5,889	7,182	20,128	280,176	0	0
Subtotal Minnesota			657,648	9,319,704	796,859	12,198,200
Missouri						
Sunflower Electric Power Coop.	0	0	0	0	79,413	1,182,520
Subtotal Missouri			0	0	79,413	1,182,520
Montana						
Big Horn County Electric Coop.	1,656	3,628	14,771	213,935	14,771	213,935
Central Montana Elec. Power Coop.	71,071	88,140	357,383	5,277,848	371,461	5,482,710
Upper Missouri G&T Elec. Coop.	38,859	55,913	309,061	4,453,406	309,050	4,456,293
Subtotal Montana			681,215	9,945,189	695,282	10,152,938
North Dakota						
Basin Electric Power Coop.	0	280,000	15,153	5,815,586	47,702	5,946,080
Capital Elec. Coop.	2,074	2,740	12,705	194,304	12,705	194,303
Central Power Electric Coop.	42,887	63,791	327,732	4,416,157	327,259	4,414,948
KEM Electric Coop.	6,242	8,279	33,988	517,644	33,988	517,739
Minnkota	51,407	75,822	422,407	6,042,519	437,002	6,017,111
Mor-Gran-Sou Electric Coop.	3,922	6,296	27,750	406,130	27,752	407,011
Oliver-Mercer Electric Coop.	2,745	4,002	18,465	266,694	18,465	267,899
Subtotal North Dakota			858,200	17,659,034	904,873	17,765,091
South Dakota						
East River Power Coop.	121,478	144,283	727,630	9,733,785	727,353	9,728,238
Grand Electric Coop.	3,458	5,136	26,948	399,558	33,169	492,316
Northern Electric Coop.	1,333	1,873	7,007	102,270	6,543	96,082
Rosebud Electric Coop.	11,358	14,215	62,055	970,315	62,055	970,518
Rushmore Electric Power Coop.	37,401	40,094	166,796	2,553,358	181,751	2,781,591
Subtotal South Dakota			990,436	13,759,286	1,010,871	14,068,745
Total rural electric cooperatives			3,713,047	57,703,374	4,015,318	62,458,348

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Federal agencies						
Montana						
Frazer & Valley—BIA	2,100	0	1,980	5,024	3,242	8,181
3-Mile Pump	60	0	23	143	32	146
Subtotal Montana			2,003	5,167	3,274	8,327
North Dakota						
Belcourt & Ft. Totten—BIA	755	827	2,204	33,624	3,141	50,234
Subtotal North Dakota			2,204	33,624	3,141	50,234
South Dakota						
Ellsworth Air Force Base	14,387	20,801	59,985	882,547	33,279	494,303
Subtotal South Dakota			59,985	882,547	33,279	494,303
Total Federal agencies			64,192	921,338	39,694	552,864
State agencies						
Minnesota						
Fergus Falls State Hospital	864	907	4,453	63,412	4,425	63,125
SW Minnesota State Univ.	5,679	10,573	34,557	459,394	35,617	474,493
Willmar Regional Treatment Center	748	652	3,731	53,795	3,874	56,115
Subtotal Minnesota			42,741	576,601	43,916	593,733
Montana						
Montana State Wtr. Cons. Bd.—Helena	1,200	0	2,014	32,129	2,327	36,819
Montana State Wtr. Cons. Bd.—Sidney	1,500	0	1,622	4,055	1,990	4,976
Subtotal Montana			3,636	36,184	4,317	41,795
Nebraska						
Beatrice State Development Center	2,085	1,305	7,983	115,111	8,242	119,160
Hastings Regional Center	1,495	825	5,591	78,455	5,312	76,934
Nebraska State Penitentiary	1,856	1,511	8,721	119,598	8,764	120,232
Norfolk Regional Center	600	430	2,504	37,082	2,634	38,831
Peru State College	153	613	1,950	28,644	1,888	27,466
Univ. of Nebraska—Lincoln	19,787	14,845	106,544	1,410,457	104,636	1,389,063
Univ. of Nebraska—Omaha	1,169	1,330	6,625	94,488	6,777	97,115
Wayne State College	298	438	1,919	28,299	1,944	28,551
Subtotal Nebraska			141,837	1,912,134	140,197	1,897,352
North Dakota						
Burleigh Water Users	142	142	145	2,234	151	2,384
Dickey Rural Water Project	0	0	1,330	17,463	1,218	16,124
Grafton State School	797	938	3,834	55,308	4,345	64,537
Missouri West	100	100	305	6,243	310	6,178
McLean-Sheridan	328	389	863	13,295	713	11,519
North Dakota Mill & Elevator Assn.	4,188	4,279	25,755	368,855	25,755	368,855
ND State School for the Deaf	108	132	598	8,777	572	8,538
ND State School of Science	2,001	1,974	8,944	138,193	8,919	138,614
ND State Hospital—Jamestown	829	950	5,284	79,603	5,260	79,292
ND State University—Bottineau	222	234	1,020	15,759	997	15,335
Southwest Water Authority	0	0	5,232	120,476	4,850	103,891
Univ. of North Dakota—Grand Forks	8,071	6,691	45,879	651,321	45,985	652,495
Subtotal North Dakota			99,189	1,477,527	99,075	1,467,762
South Dakota						
Northern State Univ.—Aberdeen	2,252	1,718	7,077	109,314	7,311	113,437
South Dakota Developmental Center	0	1,146	4,755	67,988	5,014	72,382
SD Human Services Center—Yankton	1,426	1,041	7,057	107,793	7,252	110,479
SD Cement Plant	6,000	0	17,974	271,762	17,974	271,762
SD School of Mines & Technology	2,264	1,710	8,582	128,219	8,522	128,947
SD State Penitentiary	1,683	1,456	6,277	90,469	5,905	86,357
SD State Univ.—Brookings	7,274	9,172	37,176	531,480	37,940	545,247
Springfield Correctional Facility	798	597	2,843	45,050	2,800	44,831
SD State Training School	745	720	2,959	42,177	3,243	46,783

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Univ. of South Dakota—Vermillion	8,578	10,757	30,018	434,690	30,533	446,088
Subtotal South Dakota			124,718	1,828,942	126,494	1,866,313
Total state agencies			412,121	5,831,388	413,999	5,866,955
Public utility districts						
Minnesota						
Minnesota Municipal Power Agency	0	0	35,061	644,398	0	0
So. Minn. Muni. Pwr. Agency	0	0	82,751	1,627,189	27,961	559,781
Subtotal Minnesota			117,812	2,271,587	27,961	559,781
Nebraska						
Municipal Energy Agency of Neb.	3,180	2,841	23,050	382,223	22,783	392,291
Nebraska Public Power District	458,910	181,910	809,950	18,393,573	893,011	20,140,330
Omaha Public Power District	84,900	44,053	455,696	7,985,903	511,603	7,523,279
Subtotal Nebraska			1,288,696	26,761,699	1,427,397	28,055,900
South Dakota						
Missouri River Energy Services	0	0	11,986	232,545	33,114	551,772
Heartland Consumer Power District	0	0	14,075	246,506	36,691	635,509
Subtotal South Dakota			26,061	479,051	69,805	1,187,281
Wisconsin						
Wisconsin Public Power, Inc.	0	0	24,726	373,805	4,453	74,360
Subtotal Wisconsin			24,726	373,805	4,453	74,360
Total public utility districts			1,457,295	29,886,142	1,529,616	29,877,322
Irrigation districts						
Montana						
Prairie County Water & Sewer District #2	688	0	985	19,117	1,450	25,163
Hammond Pump	240	0	407	6,355	507	7,718
Kinsey Irrigation District	720	0	1,756	4,391	2,010	5,025
Total Montana			3,148	29,863	3,967	37,906
Total irrigation districts			3,148	29,863	3,967	37,906
Investor-owned utilities						
Colorado						
Public Service Company of Colorado	0	0	5,752	138,288	1,950	38,300
Subtotal Colorado			5,752	138,288	1,950	38,300
Idaho						
Idaho Power Company	0	0	68,925	1,217,323	0	0
Subtotal Idaho			68,925	1,217,323	0	0
Iowa						
Interstate Power Company	0	0	0	0	26,752	424,514
IES Utilities	0	0	0	0	238,558	4,445,764
Midamerican Energy Company	0	0	57,762	1,262,962	326,910	4,866,733
Subtotal Iowa			57,762	1,262,962	592,220	9,737,011
Louisiana						
CLECO Corporation	0	0	16,028	382,030	0	0
Subtotal Louisiana			16,028	382,030	0	0
Massachusetts						
Citizens Power Sales	0	0	0	0	311	37,890
Subtotal Massachusetts			0	0	311	37,890
Minnesota						
Minnesota Power	0	0	370,044	7,650,481	567,204	9,717,901
Northern States Power Co.	0	0	528,536	11,973,790	439,955	9,246,223
Otter Tail Power Company	0	0	144,982	3,263,278	133,500	2,959,754
Subtotal Minnesota			1,043,562	22,887,549	1,140,659	21,923,878

Continued on next page.

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Missouri						
Kansas City Power & Light	0	0	49,204	964,953	18,194	486,761
St. Joseph Light & Power Company	0	0	4,634	88,184	1,370	33,243
Union Electric Company	0	0	0	0	2,302	93,861
Utilicorp United	0	0	605,828	15,272,879	223,025	4,505,028
Subtotal Missouri			659,666	16,326,016	244,891	5,118,893
Montana						
Montana Power Company	0	0	187,790	3,675,929	299,165	6,229,818
Subtotal Montana			187,790	3,675,929	299,165	6,229,818
New Mexico						
Public Service of Co. New Mexico	0	0	7,600	168,380	0	0
Subtotal New Mexico			7,600	168,380	0	0
North Dakota						
Montana-Dakota Utilities Co.	0	0	27,438	614,190	7,490	162,662
Subtotal North Dakota			27,438	614,190	7,490	162,662
Oregon						
PacifiCorp	0	0	135,011	2,616,214	196,207	3,993,136
Subtotal Oregon			135,011	2,616,214	196,207	3,993,136
South Dakota						
Northwestern Public Service Co.	0	0	50,981	1,175,903	49,487	1,119,394
Subtotal South Dakota			50,981	1,175,903	49,487	1,119,394
Texas						
Reliant Energy Services	0	0	10,314	375,980	0	0
Subtotal Texas			10,314	375,980	0	0
Washington						
Puget Sound Energy	0	0	30,328	719,646	15,570	556,066
Subtotal Washington			30,328	719,646	15,570	556,066
Wisconsin						
Madison Gas & Electric	0	0	17,029	277,233	21,544	379,533
Wisconsin Electric Power Company	0	0	3,950	61,800	6,439	103,580
Wisconsin Power and Light	0	0	0	0	14,144	286,166
Wisconsin Public Service Corp.	0	0	0	0	18,178	423,977
Subtotal Wisconsin			20,979	339,033	60,305	1,193,256
Total investor-owned			2,322,136	51,899,443	2,608,255	50,110,304
Power marketers						
Alabama						
Sonat Power Marketing Inc.	0	0	21,380	424,910	127,025	2,035,139
Subtotal Alabama			21,380	424,910	127,025	2,035,139
Colorado						
Rocky Mountain Generation Coop.	0	0	4,470	117,725	12,564	397,445
Subtotal Colorado			4,470	117,725	12,564	397,445
Connecticut						
The Power Company of America	0	0	0	0	1,601	33,894
Subtotal Connecticut			0	0	1,601	33,894
Florida						
The Energy Authority	0	0	64,758	1,715,326	0	0
Subtotal Florida			64,758	1,715,326	0	0
Georgia						
Continental Power Exchange	0	0	0	0	24,865	676,062
Subtotal Georgia			0	0	24,865	676,062
Iowa						
Alliant Services Company	0	0	175,377	3,533,747	0	0
Subtotal Iowa			175,377	3,533,747	0	0

Power Sales and Revenue, cont.

Customer	Contract rate of delivery		1999		1998	
	Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Minnesota						
Cargill-Alliant	0	0	230,721	3,870,116	55,605	1,246,912
Northern/AES	0	0	50,520	1,081,873	9,788	220,416
Subtotal Minnesota			281,241	4,951,989	65,393	1,467,328
Missouri						
Ameren	0	0	52	1,872		
Aquila Power	0	0	363,810	9,475,923	103,057	2,666,568
Associated Electric Schedule Trans.	0	0	51,146	833,400	77,751	1,244,849
Western Resources	0	0	91,327	2,753,694		
Subtotal Missouri			506,335	13,064,889	180,808	3,911,417
Nebraska						
Conagra Energy Services	0	0	33,967	720,286	340	3,720
Subtotal Nebraska			33,967	720,286	340	3,720
North Dakota						
Rainbow Energy Marketing Corp.	0	0	41,135	830,275	7,932	275,540
Subtotal North Dakota			41,135	830,275	7,932	275,540
Oregon						
PacifiCorp Power Marketing, Inc.	0	0	24,740	676,870	0	0
Subtotal Oregon			24,740	676,870	0	0
Texas						
Coral Power	0	0	9,588	125,047	0	0
Delhi Energy Services	0	0	0	0	2,200	26,300
Enron Power Marketing Group	0	0	28,372	816,877	10,206	199,929
Tenaska Power Services Co.	0	0	108,258	1,491,269	14,067	259,883
Subtotal Texas			146,218	2,433,193	26,473	486,112
Canada						
PowerEx	0	0	139,792	2,410,244	6,906	170,553
Manitoba Hydro	0	0	47,469	699,002	21,409	429,337
Saskatchewan Power Company	0	0	51,580	769,952		
Trans Alta Marketing Corporation	0	0	26,946	563,864	3,225	84,174
Subtotal Canada			265,787	4,443,062	31,540	684,064
Total power marketers			1,565,408	32,912,272	478,541	9,970,721
Pick-Sloan Missouri Basin Program— Eastern Division subtotal			13,160,178	232,624,711	12,738,288	212,361,784
Project use sales	0	0	31,005	112,948	36,619	136,204
Pick-Sloan Missouri Basin Program— Eastern Division subtotal			13,191,183	232,737,659	12,774,907	212,497,988
Interproject						
Colorado						
Loveland Area Projects	0	0	131,051 ²	2,496,787	1,230	38,395
Subtotal Colorado			131,051	2,496,787	1,230	38,395
Utah						
Salt Lake City Area/Integrated Projects	0	0	3,244	71,577	0	0
Subtotal Utah			3,244	71,577	0	0
Total interproject sales			134,295	2,568,364	1,230	38,395
Pick Sloan Missouri Basin Program— Eastern Division totals³			13,325,478	235,306,023	12,776,137	212,536,383

¹ Allocation was transferred to individual distribution coops in December 1998.

² Includes sales of nonfirm energy to Rocky Mountain Generation Cooperative, Inc. (6,109 MWh and \$157,316) and to SLCA/IP (6,490 MWh and \$109,365).

³ These totals include 1,245,221 MWh and \$22,808,107 for Joint Marketing Plan Sales in FY99.

Pick-Sloan Missouri Basin Program Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	4,848,576	(9)	297,538	5,146,105
Income transfers (net)	2,700	0	0	2,700
Total operating revenue	4,851,276	(9)	297,538	5,148,805
Expenses:				
O & M and other	2,160,065	5,598 ²	133,722	2,299,385
Purchase power and other	458,117	(6,511) ³	16,444	468,050
Interest				
Federally financed	1,207,819	(1,414) ⁴	61,487	1,267,892
Non-Federally financed	8,285	0	2,743	11,028
Total interest	1,216,104	(1,414)	64,230	1,278,920
Total expense	3,834,286	(2,327)	214,396	4,046,355
(Deficit)/surplus revenue	0	231	(231)	0
Investment:				
Federally financed power	2,169,856	(6,078) ⁵	108,047 ⁶	2,271,825
Non-Federally financed power	25,023	0	0	25,023
Nonpower	730,489	3,309 ⁷	0	733,798
Total investment:	2,925,368	(2,769)	108,047	3,030,646
Investment repaid:				
Federally financed power	1,014,484	2,087	83,274	1,099,845
Non-Federally financed power	241	0	99	340
Nonpower	2,265	0	0	2,265
Total investment repaid	1,016,990	2,087	83,373	1,102,450
Investment unpaid:				
Federally financed power	1,155,372	(8,165)	24,773	1,171,980
Non-Federally financed power	24,782	0	(99)	24,683
Nonpower	728,224	3,309	0	731,533
Total investment unpaid	1,908,378	(4,856)	24,674	1,928,196
Percent of investment repaid to date:				
Federal	46.75%			48.41%
Non-Federal	0.96%			1.36%
Nonpower	0.31%			0.31%

¹ Based on the Preliminary 1999 Power Repayment Study.

² Adjustment to include purchased transmission services in O&M expense.

³ Adjustment to exclude purchased transmission services from purchase power expense.

⁴ Corrects for an overstatement of interest expense in FY 1998.

⁵ Corrects for an overstatement of investment in FY 1998.

⁶ Includes the 1999 budget amounts plus 1998 construction work-in-progress.

⁷ Corrects for an understatement of irrigation aid in FY 1998.

Transmission Revenue

	FY 1999	FY 1998
Transmission service	Revenue (\$)	Revenue (\$)
Firm network	8,389,262	3,021,532
Long-term firm point-to-point	6,428,925	904,907
Nonfirm point-to-point	1,371,990	1,264,408
Short-term firm point-to-point	4,514,749	61,829
Total	20,704,926	5,252,676

Ancillary Services Revenue

	FY 1999	FY 1998
Ancillary service	Revenue (\$)	Revenue (\$)
Reactive supply and voltage control service	416,294	154,288
Regulation and frequency response	188,818	82,331
Total	605,112	236,619

1999 SALT LAKE CITY AREA/INTEGRATED PROJECTS

Power generated at Colorado River Storage Project plants and from the Collbran and Rio Grande projects was combined into the Salt Lake City Area/Integrated Projects on Oct. 1, 1987, and is marketed under the Post-1989 General Power Marketing and Allocation Criteria, developed in 1986 and modified in 1989. In 1999, contracts with present customers were extended from 2004 to 2024 and a new marketing proposal for new customers was implemented for the same time frame.

Collbran Project

The Collbran Project, located in west-central Colorado about 35 miles northeast of Grand Junction near the town of Collbran, was authorized by Congress on July 3, 1952. Construction of the project started in 1957 and was essentially completed in 1962.

Collbran developed a major part of the unused water of Plateau Creek and its principal tributaries for irrigation, flood control, recreational and fish and wildlife benefits. It includes several small diversion dams, 34 miles of canals, 19 miles of pipeline and two powerplants (Upper and Lower Molina) with a combined capacity of 14 MW. Net generation in 1999 was 49 million kWh. The five-year average generation is 52 million kWh.

Rio Grande Project

The Rio Grande Project was authorized by the Rio Grande Reclamation Project Act of Feb. 25, 1905. The project is located on the Rio Grande River in south-central New Mexico. Elephant Butte Dam, 125 miles north of El Paso, Texas, was completed in 1916. Caballo Dam, a flood control and reregulating reservoir, located 13 miles downstream, was added to the project in 1938.

Elephant Butte Powerplant and the 115-kV transmission system were added in 1940 and 1952, respectively. The transmission system was sold to Plains Electric Generation and Transmission Cooperative in 1979. Hot Springs Substation was sold to Truth or Consequences, N.M., in 1984. The three-unit powerplant has an operating capacity of 28 MW.

Elephant Butte Powerplant produced 1999 net generation of 102 million kWh. The five-year average is 115 million kWh.

Colorado River Storage Project

The Colorado River Storage Project was authorized by the Act of April 11, 1956. It consists of four major storage units: Glen Canyon, on the Colorado River in Arizona near the Utah border; Flaming Gorge on the Green River in Utah near the Wyoming border; Navajo, on the San Juan River in north-western New Mexico near the Colorado border; and the Wayne N. Aspinall unit (formerly Curecanti), on the Gunnison River in west-central Colorado.

[Continued on next page.](#)

CRSP has a combined storage capacity that exceeds 33.5 million acre-feet. The project provides water-use developments in the upper Colorado River basin while still maintaining water deliveries to the lower Colorado River as required by the Colorado River Compact. Six Federal powerplants are associated with the project. Operating capacity of CRSP's 16 generating units is 1,710,000 kW. With about 7.4 billion kWh of net generation for the past five years, CRSP provides for the electrical needs of more than a million people spread across Colorado, Utah, New Mexico and Arizona. Portions of southern California, Nevada and Wyoming are also served by CRSP power. More than 4,131 circuit kilometers of high-voltage transmission lines are strung throughout these states to deliver power to customers.

Runoff at Lake Powell was 82 percent of average in FY 1999. Reclamation's releases from Lake Powell were 11.2 million acre-feet, exceeding the minimum objective release obligation of 8.23 MAF. CRSP hydrogeneration produced approximately 7,086,955 MWh in FY 1999.

- **Seedskadee Project**

The Seedskadee Project is located in southwestern Wyoming in the Upper Green River Basin, which is a part of the Upper Colorado River Basin. Seedskadee was authorized for construction as a participating project of the Colorado River Storage Project by the Colorado River Storage Project Act of April 11, 1956.

The project's Fontenelle Dam and Reservoir were completed in April 1964. Power facilities associated with the dam were completed in January 1966. These included a 10-megawatt powerplant and switchyard at Fontenelle Dam and necessary transmission lines to interconnect with the Colorado River Storage Project transmission system at Flaming Gorge Powerplant. The powerplant has since been uprated to 11.5 MW. Fontenelle powerplant came online in 1968.

The authorizing legislation required that power's share of the project's allocated costs be repaid from power revenues from Fontenelle powerplant. For this reason, the Bureau of Reclamation prepared a separate financial statement and power repayment study for Seedskadee through 1977. However, when the facilities were turned over to Western in 1978, Seedskadee's power repayment study was combined into the CRSP PRS.

A re-examination of CRSP's enabling legislation in FY 1991 resulted in Western's realization that Congress intended each CRSP participating project to be financially self-sufficient. Beginning in 1993, Western resumed preparing a separate PRS and financial statements for Seedskadee, including making adjustments to CRSP revenues, expenses and capitalization to separate Seedskadee's financial data from CRSP. Net generation in FY 1999 was 76 million kWh. The five-year average generation is 71 million kWh.

[Continued on next page.](#)

- Dolores Project

The Dolores Project, located in Montezuma and Dolores counties in southwestern Colorado, was authorized for construction as a participating project of the Colorado River Storage Project by Public Law 90-537, Sept. 30, 1968; and Public Law 98-569, Oct. 30, 1984. Construction of the project began in 1977. This multipurpose project provides 12.8 MW of installed power generating capacity along with municipal and industrial water, irrigation water, and recreation and fish and wildlife enhancement. Primary storage is provided by the McPhee Dam and Reservoir on the Dolores River.

Powerplants are located on the McPhee Dam and the Towaoc Canal to generate power for the Colorado River Storage Project power system. The McPhee Dam powerplant operates year-round on fishery releases from McPhee Reservoir while the Towaoc Canal powerplant operated from April to October on the irrigation water supply conveyed through the canal. The powerplants at McPhee Dam, completed in 1992 and on the Towaoc Canal, completed in 1993, produce 1,283 kW and 11,495 kW, respectively, for use in the CRSP power system. Net generation in FY 1999 was 23 million kWh. The five-year average generation is 16 million kWh.

Similar to the Seedskadee Project, the authorizing legislation requires that power's share of the project's allocated costs be repaid from power revenues from the two Dolores powerplants.

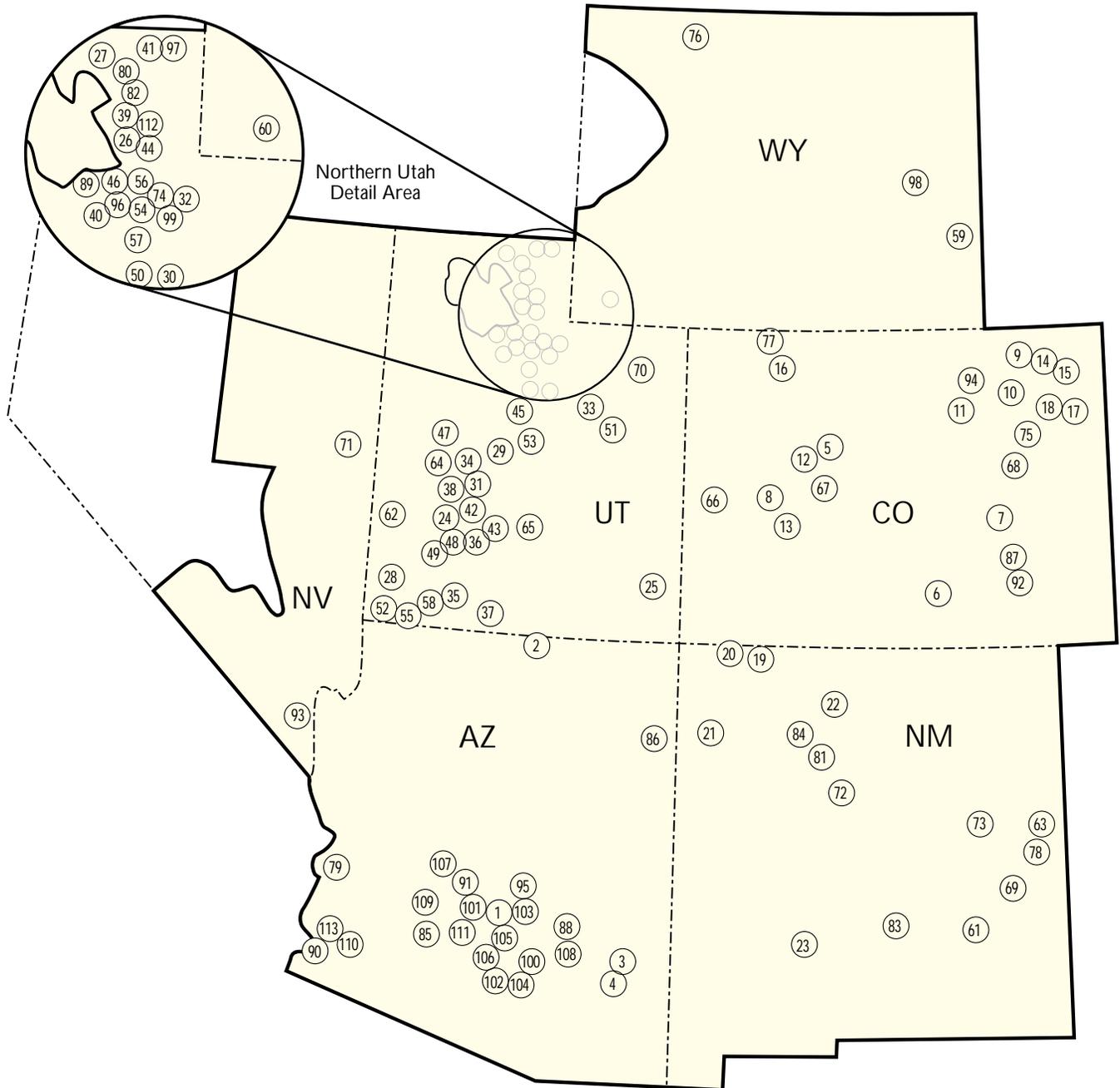
Salt Lake City Area/Integrated Projects

Generation from the Colorado River Storage and its participating projects (Dolores and Seedskadee), and from the Collbran and Rio Grande projects, are marketed as the Salt Lake City Area/Integrated Projects. Integrated Projects FY 1999 net generation was 7.3 billion kWh, or 22 percent greater than average net generation. Average generation for the integrated projects since 1989 is about 6 billion kWh.

SLCA/IP power marketed by Western increased by 1.1 percent from 8.6 billion kWh in FY 1998 to 8.7 billion kWh in FY 1999. This year, power revenues decreased by 7 percent from \$153 million in FY 1998 to \$143 million. Western was required to purchase nearly 1,089,486 MWh to supplement firm contractual requirements and other obligations—a 70-percent increase from the 339,714 MWh purchased last year.

SALT LAKE CITY AREA/INTEGRATED PROJECTS

Firm Power Customers and Marketing Area



Legend is on next page.

Map is on previous page.

Municipalities

Arizona

- 1 Ak-Chin Indian Community
- 2 Page—UAMPS
- 3 Safford
- 4 Thatcher

Colorado

- 5 Aspen
- 6 Center
- 7 Colorado Springs
- 8 Delta
- 9 Fleming
- 10 Fort Morgan
- 11 Frederick
- 12 Glenwood Springs
- 13 Gunnison
- 14 Haxtun
- 15 Holyoke
- 16 Oak Creek
- 17 Wray
- 18 Yuma

New Mexico

- 19 Aztec
- 20 Farmington
- 21 Gallup
- 22 Los Alamos County
- 23 Truth or Consequences

Utah

- 24 Beaver City—UAMPS
- 25 Blanding—UAMPS
- 26 Bountiful—UAMPS
- 27 Brigham City
- 28 Enterprise—UAMPS
- 29 Ephraim—UAMPS
- 30 Fairview—UAMPS
- 31 Fillmore—UAMPS
- 32 Heber City—UAMPS
- 33 Helper

- 34 Holden—UAMPS
- 35 Hurricane—UAMPS
- 36 Hyrum—UAMPS
- 37 Kanab—UAMPS
- 38 Kanosh—UAMPS
- 39 Kaysville—UAMPS
- 40 Lehi—UAMPS
- 41 Logan—UAMPS
- 42 Meadow—UAMPS
- 43 Monroe—UAMPS
- 44 Morgan—UAMPS
- 45 Mt. Pleasant—UAMPS
- 46 Murray—UAMPS
- 47 Oak City—UAMPS
- 48 Paragonah—UAMPS
- 49 Parowan—UAMPS
- 50 Payson—UAMPS
- 51 Price
- 52 Santa Clara—UAMPS
- 53 Spring City—UAMPS
- 54 Springville—UAMPS
- 55 St. George—UAMPS
- 56 Utah Association of
Municipal Power Systems
- 57 Utah Municipal
Power Agency
- 58 Washington—UAMPS

Wyoming

- 59 Torrington

Rural electric cooperatives

- 60 Bridger Valley E.A.
- 61 Central Valley Electric Coop.
- 62 Dixie-Escalante REA
- 63 Farmers Electric Coop
- 64 Flowell E.A.
- 65 Garkane Power Assn.
- 66 Grand Valley Electric Coop.
- 67 Holy Cross

- 68 Intermountain Rural Electric Coop.
- 69 Lea County Electric Coop.
- 70 Moon Lake E.A.
- 71 Mt. Wheeler Power Assn.
- 72 Plains Electric G&T
- 73 Roosevelt County Electric Coop.
- 74 Strawberry Water Users District—
UAMPS
- 75 Tri-State G&T Assn.
- 76 Willwood Light & Power Co.
- 77 Yampa Valley Elec. Assn.

Federal agencies

- 78 Cannon Air Force Base
- 79 Colorado River Agency
- 80 Defense Depot Ogden
- 81 Albuquerque Operations—DOE
- 82 Hill Air Force Base
- 83 Holloman Air Force Base
- 84 Kirtland Air Force Base
- 85 Luke Air Force Base
- 86 Navajo Tribal Utility Auth.
- 87 Pueblo Army Depot
- 88 San Carlos Irrigation Project
- 89 Tooele Army Depot
- 90 Yuma Proving Grounds

State agencies

- 91 Arizona Power Pool Assn.
- 92 Arkansas River Power Authority
- 93 Colorado River Commission
- 94 Platte River Power Authority
- 95 Salt River Project
- 96 University of Utah
- 97 Utah State University
- 98 Wyoming Municipal Power Agency

Irrigation districts

- 99 Central Utah Water
Conservancy Dist.—UAMPS
- 100 Chandler Heights Citrus
Irrigation Dist.
- 101 ED-3 Pinal
- 102 ED-4 Pinal
- 103 ED-5 Maricopa
- 104 ED-5 Pinal
- 105 ED-6 Pinal
- 106 ED-7
- 107 Maricopa Co. MWCD No.1
- 108 Queen Creek ID
- 109 Roosevelt ID
- 110 Roosevelt WCD
- 111 San Tan ID
- 112 Weber Basin Water
Conservancy District—UAMPS
- 113 Wellton-Mohawk ID

Note: Does not include interproject and Bureau of Reclamation customers.

Energy Resources and Disposition

	(GWh)	
	FY 1999	FY 1998
Energy resources		
Net generation	7,336	8,540
Interchange		
Received	137	141
Delivered	85	96
Net	52	45
Purchases		
Non-Western	947	335
Western	143	4
Total purchases	1,090	339
Total energy resources	8,478	8,924
Energy disposition		
Sales of electric energy		
Western sales	8,069	8,476
Project use sales	60	69
Total energy sales	8,129	8,545
Other		
Interarea/interproject	185	56
Total other	185	56
Total energy delivered	8,314	8,601
System and contractual losses	164	323
Total energy disposition	8,478¹	8,924

¹ Western sales were reduced by 376 GWh for sales that were prior year adjustments from other Western projects.

Facilities and Substations

Facility	FY 1999	FY 1998
Substations		
Number of substations	25	25
Number of transformers	38	38
Transformer capacity (kVA)	4,927,895	4,927,895
Land (fee)		
Acres	679.61	679.61
Hectares	275.15	275.15
Land (easement)		
Acres	513.53	513.53
Hectares	207.91	207.91
Buildings and communications sites		
Number of buildings	77	77
Number of communications sites	65	65
Land (fee)		
Acres	2.2	2.2
Hectares	0.89	0.89
Land (easement)		
Acres	114.14	114.14
Hectares	46.21	46.21

Marketing Plan Summary

Project	Expiration Date
Salt Lake City Area/Integrated Projects	Sept. 30, 2024

Firm Power Rate Provisions

Fiscal year	Rate schedule designation	Capacity charge \$/kW of billing demand	Energy charge not in excess of delivery obligations (mills/kWh)	Effective date	Annual combined rate	Annual composite rate
1999	SLIP-F6	3.44	8.10 mills/kWh	4/1/98	N/A	17.57 mills/kWh

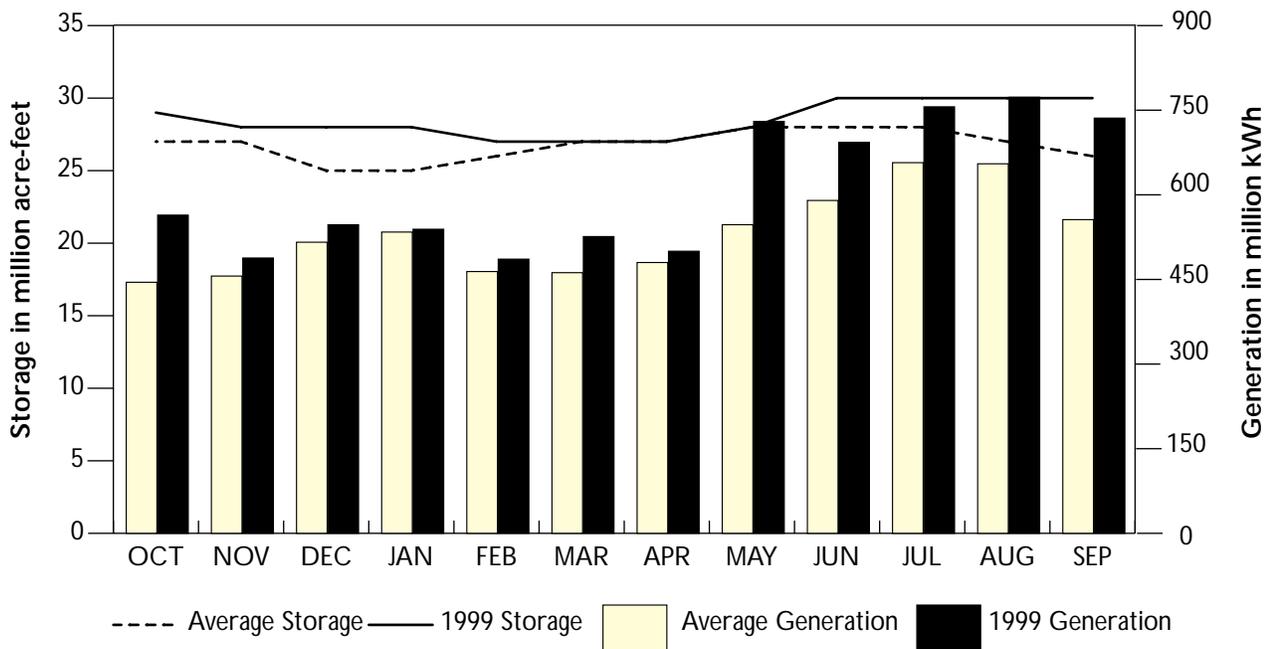
Transmission and Ancillary Services Rate Provisions

Fiscal year	Rate schedule designation	Rate
1999	SP-PTP5, Firm Point-to-Point Transmission Service	\$2.18 per kW per month.
	SP-NFT4, Nonfirm Point-to-Point Transmission Service	Mutually agreed by Western and purchasing entity up to 2.99 mills/kWh.
	SP-SD1, Scheduling System Control & Dispatch	Included in transmission rate. RMR and DSW tariffs apply for non-transmission, accordingly.
	SP-RSI, Reactive & Voltage Control	RMR and DSW tariffs apply, accordingly.
	SP-EI1, Energy Imbalance	Costs plus 10%.
	SP-FRI, Regulation & Frequency Response	\$3.44 per kW per month if available - or costs plus 10%.
	SP-SSR1, Spinning and Supplemental Reserves	Costs plus 10%. Firm power rate if available.

Transmission Lines

Voltage rating	Arizona		Colorado		New Mexico		Utah		Wyoming		Total	
	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998
345-kV												
Circuit miles	477.34	477.34	375.58	375.58	31.86	31.86	17.60	17.60	0.00	0.00	902.38	902.38
Circuit kilometers	768.04	768.04	604.31	604.31	51.26	51.26	28.32	28.32	0.00	0.00	1,451.93	1,451.93
Acres	8,413.77	4,051.56	7,166.78	7,539.53	579.39	653.67	308.17	410.51	824.42	778.90	17,292.53	13,434.17
Hectares	3,406.39	1,640.31	2,901.54	3,052.45	234.57	264.64	124.77	166.20	333.77	315.34	7,001.04	5,438.95
230-kV												
Circuit miles	155.96	155.96	791.78	791.78	67.39	67.39	0.00	0.00	0.00	0.00	1,015.13	1,015.13
Circuit kilometers	250.94	250.94	1,273.97	1,273.97	108.43	108.43	0.00	0.00	0.00	0.00	1,633.34	1,633.34
Acres	2,783.97	2,890.32	7,683.77	8,397.25	1,006.98	1,001.29	0.00	0.00	1,359.54	1,456.56	12,834.26	13,745.42
Hectares	1,127.12	1,170.17	3,110.84	3,399.70	407.69	405.38	0.00	0.00	550.42	589.70	5,196.07	5,564.96
138-kV												
Circuit miles	0.00	0.00	188.57	188.57	0.00	0.00	116.80	116.80	0.00	0.00	305.37	305.37
Circuit kilometers	0.00	0.00	303.41	303.41	0.00	0.00	187.93	187.93	0.00	0.00	491.34	491.34
Acres	0.00	0.00	1,901.24	2,097.96	0.00	0.00	1,089.52	1,140.73	0.00	0.00	2,990.76	3,238.69
Hectares	0.00	0.00	769.73	849.38	0.00	0.00	441.10	461.84	0.00	0.00	1,210.84	1,311.21
115-kV												
Circuit miles	0.00	0.00	134.20	134.20	0.00	0.00	0.00	0.00	0.00	0.00	134.20	134.20
Circuit kilometers	0.00	0.00	215.93	215.93	0.00	0.00	0.00	0.00	0.00	0.00	215.93	215.93
Acres	0.00	0.00	1,199.10	1,305.49	0.00	0.00	0.00	0.00	0.00	0.00	1,199.10	1,305.49
Hectares	0.00	0.00	485.47	528.54	0.00	0.00	0.00	0.00	0.00	0.00	485.47	528.54
69-kV and below												
Circuit miles	5.36	5.36	22.80	22.80	2.70	2.70	0.32	0.32	0.00	0.00	31.18	31.18
Circuit kilometers	8.62	8.62	36.69	36.69	4.34	4.34	0.51	0.51	0.00	0.00	50.17	50.17
Acres	206.81	34.06	186.72	35.91	12.44	0.00	21.67	0.00	0.00	0.00	427.64	69.97
Hectares	83.73	13.79	75.60	14.54	5.04	0.00	8.77	0.00	0.00	0.00	173.13	28.33
Totals												
Circuit miles	638.66	638.66	1,512.93	1,512.93	101.95	101.95	134.72	134.72	0.00	0.00	2,388.26	2,388.26
Circuit kilometers	1,027.60	1,027.60	2,434.30	2,434.30	164.04	164.04	216.76	216.76	0.00	0.00	3,842.71	3,842.71
Acres	11,404.55	6,975.94	18,137.61	19,376.14	1,598.81	1,654.96	1,419.36	1,551.24	2,183.96	2,235.46	34,744.29	31,793.74
Hectares	4,617.24	2,824.27	7,343.18	7,844.61	647.29	670.03	574.64	628.03	884.20	905.05	14,066.55	12,871.99

Storage and Generation



Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability ¹ FY 1999 (MW)	Actual		Net generation (GWh) ²	
						Operating capability (MW) July 1, 1999	Operating capability (MW) July 1, 1998	FY 1999	FY 1998
Arizona									
Glen Canyon	Reclamation	Colorado	Sep 64	8	1,356	1,288	1,288	5,548	6,626
Colorado									
Blue Mesa	Reclamation	Gunnison	Sep 67	2	96	86	86	269	296
Crystal	Reclamation	Gunnison	Sep 78	1	28	28	28	164	210
Lower Molina	Reclamation	Pipeline	Dec 62	1	5	5	5	18	24
McPhee	Reclamation	Dolores	Jun 93	1	1	1	1	4	1
Morrow Point	Reclamation	Gunnison	Dec 70	2	156	156	156	324	366
Towaoc	Reclamation	Canal	Jun 93	1	11	11	11	18	15
Upper Molina	Reclamation	Pipeline	Dec 62	1	9	9	9	30	40
New Mexico									
Elephant Butte	Reclamation	Rio Grande	Nov 40	3	28	28	28	102	116
Utah									
Flaming Gorge	Reclamation	Green	Nov 63	3	152	152	152	781	767
Wyoming									
Fontenelle	Reclamation	Green	May 68	1	13	10	10	76	79
Salt Lake City Area/Integrated Projects Total				24	1,855	1,775	1,775	7,336	8,540

¹ Maximum operating capability is the maximum generating capability of the units at unity power factor without exceeding the specified heat rise on each unit and independent of water constraints.

² Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

Reclamation - Bureau of Reclamation, Department of the Interior

Purchased Power

Supplier	FY 1999		FY 1998	
	Energy (MWh)	Costs (\$ 000)	Energy (MWh)	Costs (\$ 000)
Non-Western supplier				
Arizona Public Service Company	20,580	550	7,596	250
American Electric	560	12	0	0
Aquilla	650	39	3,120	61
Basin Electric Power Coop.	74,639	1,237	0	0
Black Hills	350	22	0	0
Colorado Springs Utilities	702	20	100	2
E-Prime	155,318	2,690	176,548	3,142
El Paso Energy Marketing	0	0	151	3
Enron Operations Corp.	4,400	132	0	0
Idaho Power	37,132	904	0	0
Montana Power Company	57,086	1,379	1,890	48
Municipal Energy Agency of Nebraska	254	7	0	0
Nebraska Public Power District	1,820	86	350	18
Nevada Power Company	560	17	720	31
PacifiCorp	111,110	2,914	26,023	597
Plains Electric G&T	1,678	37	0	0
Public Service Company of Colorado	156,476	4,232	13,119	324
Platte River Power Authority	7,255	106	320	6
Public Service Co. of New Mexico	105,791	2,949	40,777	1,217
Rocky Mountain Generation Coop.	43,799	663	24,291	420
Salt River Project	88,921	2,357	29,556	721
Tri-State Generation and Trans. Assoc.	3,272	167	0	0
Tucson Electric Power Co.	16,272	426	1,086	28
Utah Associated Muni. Power Systems	13,200	335	0	0
Utah Municipal Power Agency	44,731	1,125	6,108	153
UtilliCorp/West Plains	190	5	4,160	95
Non-Western subtotal	946,746	22,411	335,915	7,116
Western suppliers				
Pick-Sloan—Eastern Division	3,244	72	0	0
Parker-Davis	139,496	3,355	3,799	126
Western subtotal	142,740	3,427	3,799	126
Total	1,089,486	25,838¹	339,714	7,242

¹ Purchase power costs differ from financial statements by \$643,000 due to prior year adjustments, accruals and reclassifications.

Purchased Transmission

Supplier	FY 1999 Costs (\$ 000)	FY 1998 Costs (\$ 000)
Non-Western suppliers		
Arizona Public Service	0	0
Bridger Valley Electric	7	7
British Power Corp.	0	3
Delta-Montrose Electric Association	22	2
Deseret Generation and Trans. Assoc.	680	624
Empire Electric	109	122
Public Service Company of Colorado	526	526
PacifiCorp	2,628	1,968
Public Service Company of New Mexico	1,577	1,497
Tri-State Generation and Trans. Assoc.	3	0
West Plains Energy	5	6
Subtotal non-Western suppliers	5,557	4,755
Western suppliers		
Pacific NW-SW Intertie	1,426	881
Subtotal Western suppliers	1,426	881
Total Salt Lake City Area/ Integrated Projects	6,983 ¹	5,636

¹ Purchase transmission costs differ from financial statements by approximately \$350,000 due to prior year adjustments, accruals and reclassifications.

Firm and Nonfirm Sales by Customer Category

Type of customer	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Municipalities						
Energy sales—MWh	1,978,996	11,923	1,990,919	1,847,350	76,595	1,923,945
Power revenues—\$	32,774,392	294,850	33,069,242	33,586,682	1,200,969	34,787,651
Cooperatives						
Energy sales—MWh	3,188,921	227,697	3,416,618	3,017,175	334,360	3,351,535
Power revenues—\$	51,350,781	4,015,218	55,365,999	53,049,052	5,574,553	58,623,605
Federal agencies						
Energy sales—MWh	636,100	4,573	640,673	464,998	23,294	488,292
Power revenues—\$	10,461,743	84,748	10,546,491	8,670,076	589,381	9,259,457
State agencies						
Energy sales—MWh	1,630,537	266,855	1,897,392	1,633,751	429,158	2,062,909
Power revenues—\$	26,018,412	4,940,851	30,959,263	28,496,065	6,842,464	35,338,529
Irrigation districts						
Energy sales—MWh	101,341	180	101,521	102,163	566	102,729
Power revenues—\$	1,514,864	8,640	1,523,504	2,137,048	10,746	2,147,794
Investor-owned utilities						
Energy sales—MWh	0	371,451	371,451	0	519,000	519,000
Power revenues—\$	0	5,090,000	5,090,000	0	9,139,930	9,139,930
Power marketers						
Energy sales—MWh	0	26,802	26,802	0	27,286	27,286
Power revenues—\$	0	524,937	524,937	0	375,470	375,470
Total ¹						
Energy sales—MWh	7,535,897	909,481	8,445,378	7,065,437	1,410,259	8,475,696
Power revenues—\$	122,120,192	14,959,244	137,079,436	125,938,923	23,733,513	149,672,436

¹ Does not include interproject or project use sales and revenues.

Firm and Nonfirm Energy Sales by State ¹

State	FY 1999			FY 1998		
	Firm	Nonfirm	Total	Firm	Nonfirm	Total
Arizona						
Energy sales—MWh	1,177,077	385,604	1,562,681	1,088,621	545,000	1,633,621
Power revenues—\$	18,639,023	7,207,791	25,846,814	19,977,959	9,135,120	29,113,079
California						
Energy sales—MWh	0	7,517	7,517	0	111,940	111,940
Power revenues—\$	0	181,925	181,925	0	1,947,713	1,947,713
Colorado						
Energy sales—MWh	2,754,586	67,135	2,821,721	2,666,393	124,960	2,791,353
Power revenues—\$	43,360,779	964,910	44,325,689	45,723,608	1,737,336	47,460,944
Idaho						
Energy sales—MWh	0	8,817	8,817	0	0	0
Power revenues—\$	0	123,927	123,927	0	0	0
Massachusetts						
Energy sales—MWh	0	200	200	0	0	0
Power revenues—\$	0	3,200	3,200	0	0	0
Missouri						
Energy sales—MWh	0	536	536	0	11,061	11,061
Power revenues—\$	0	18,538	18,538	0	286,740	286,740
Montana						
Energy sales—MWh	0	59,737	59,737	0	1,435	1,435
Power revenues—\$	0	538,355	538,355	0	23,590	23,590
Nebraska						
Energy sales—MWh	0	962	962	0	16,400	16,400
Power revenues—\$	0	25,930	25,930	0	200,600	200,600
Nevada						
Energy sales—MWh	352,426	5,777	358,203	250,206	24,144	274,350
Power revenues—\$	6,268,859	141,276	6,410,135	4,530,142	412,681	4,942,822
New Mexico						
Energy sales—MWh	1,206,371	234,412	1,440,783	1,158,709	382,101	1,540,810
Power revenues—\$	19,866,537	3,797,355	23,663,892	20,965,562	6,575,943	27,541,505
Oklahoma						
Energy sales—MWh	0	0	0	0	86	86
Power revenues—\$	0	0	0	0	1,942	1,942
Oregon						
Energy sales—MWh	0	0	0	0	15,920	15,920
Power revenues—\$	0	0	0	0	523,760	523,760
Texas						
Energy sales—MWh	0	4,480	4,480	0	740	740
Power revenues—\$	0	142,160	142,160	0	38,856	38,856
Utah						
Energy sales—MWh	1,949,233	119,173	2,068,406	1,813,102	174,221	1,987,323
Power revenues—\$	32,404,027	1,567,860	33,971,887	33,142,961	2,829,198	35,972,159
Wyoming						
Energy sales—MWh	96,203	0	96,203	88,406	2,251	90,657
Power revenues—\$	1,580,967	0	1,580,967	1,598,691	20,034	1,618,725
Canada						
Energy sales—MWh	0	15,131	15,131	0	0	0
Power revenues—\$	0	246,017	246,017	0	0	0
Total						
Energy sales—MWh	7,535,897	909,481	8,445,378	7,065,437	1,410,259	8,475,696
Power revenues—\$	122,120,192	14,959,244	137,079,436	125,938,923	23,733,513	149,672,436

¹ Does not include project use or interproject sales and revenues.

Sales by State and Customer Category

State/customer category	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Arizona				
Municipalities	33,335	579,901	46,895	847,055
Cooperatives	95,388	1,836,107	37,744	725,762
Federal agencies	435,625	6,661,830	275,318	4,634,714
State agencies	870,532	14,735,133	1,007,982	17,773,620
Irrigation districts	101,341	1,514,864	102,179	2,137,194
Investor-owned utilities	26,460	518,980	163,503	2,994,734
Interproject sales	22,039	469,603	29,389	793,892
Total Arizona	1,584,720	26,316,417	1,663,010	29,906,971
California				
Municipalities	500	14,000	1,233	30,364
State agencies	6,837	159,285	81,764	1,375,499
Irrigation districts	180	8,640	550	10,600
Investor-owned utilities	0	0	28,393	531,250
Total California	7,517	181,925	111,940	1,947,713
Colorado				
Municipalities	440,528	7,552,266	367,860	6,649,832
Cooperatives	1,588,937	24,925,906	1,568,313	26,970,985
Federal agencies	6,864	159,628	6,139	172,242
State agencies	726,282	10,873,490	761,500	12,473,676
Investor-owned utilities	52,306	695,798	78,666	1,092,544
Power marketers	6,804	118,600	8,875	101,665
Interproject sales	163,031	4,681,838	26,255	720,886
Project use sales	24,472	585,756	17,056	316,288
Total Colorado	3,009,224	49,593,282	2,834,664	48,498,118
Idaho				
Investor-owned utilities	8,817	123,927	0	0
Total Idaho	8,817	123,927	0	0
Massachusetts				
Power marketers	200	3,200	0	0
Total Massachusetts	200	3,200	0	0
Missouri				
Investor-owned utilities	536	18,538	11,061	286,740
Total Missouri	536	18,538	11,061	286,740
Montana				
Investor-owned utilities	59,737	538,355	1,435	23,590
Total Montana	59,737	538,355	1,435	23,590
Nebraska				
State agencies	775	10,970	0	0
Power marketers	187	14,960	16,400	200,600
Total Nebraska	962	25,930	16,400	200,600
Nevada				
Cooperatives	125,202	2,139,993	107,791	1,938,529
State agencies	227,224	4,128,866	152,265	2,679,282
Investor-owned utilities	5,777	141,276	14,294	325,012
Total Nevada	358,203	6,410,135	274,350	4,942,822
New Mexico				
Municipalities	209,866	3,484,716	184,049	3,214,981
Cooperatives	981,500	15,698,583	1,088,493	19,110,810
Federal agencies	147,100	2,911,526	142,684	3,097,428
Investor-owned utilities	102,317	1,569,067	125,584	2,118,286
Project use sales	33,998	551,449	51,715	1,030,336
Total New Mexico	1,474,781	24,215,342	1,592,525	28,571,841

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Sales by State and Customer Category, cont.

State/customer category	FY 1999		FY 1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Oklahoma				
Power marketers	0	0	86	1,942
Total Oklahoma	0	0	86	1,942
Oregon				
Federal agencies	0	0	15,920	523,760
Total Oregon	0	0	15,920	523,760
Texas				
Investor-owned utilities	0	0	190	5,356
Power marketers	4,480	142,160	550	33,500
Total Texas	4,480	142,160	740	38,856
Utah				
Municipalities	1,295,958	21,266,863	1,312,554	23,832,162
Cooperatives	568,919	9,817,589	497,895	8,974,849
Federal agencies	51,084	813,506	48,231	831,313
State agencies	36,943	589,869	31,394	533,654
Investor-owned utilities	115,501	1,484,059	95,874	1,762,419
Power marketers	0	0	1,375	37,763
Project use sales	2,023	20,579	525	28,592
Total Utah	2,070,429	33,992,465	1,987,848	36,000,751
Wyoming				
Municipalities	10,732	171,497	11,354	213,258
Cooperatives	56,672	947,820	51,299	902,671
State agencies	28,800	461,650	28,004	502,797
Total Wyoming	96,203	1,580,967	90,657	1,618,725
Canada				
Power marketers	15,131	246,017	0	0
Total Canada	15,131	246,017	0	0
Total Salt Lake City Area Integrated Projects				
Municipalities	1,990,919	33,069,242	1,923,945	34,787,651
Cooperatives	3,416,618	55,365,999	3,351,535	58,623,605
Federal agencies	640,673	10,546,491	488,292	9,259,457
State agencies	1,897,392	30,959,263	2,062,909	35,338,529
Irrigation districts	101,521	1,523,504	102,729	2,147,794
Investor-owned utilities	371,451	5,090,000	519,000	9,139,930
Power marketers	26,802	524,937	27,286	375,470
Interproject sales	185,070	5,151,441	55,644	1,514,778
Project use sales	60,493	1,157,784	69,296	1,375,216
Total	8,690,941	143,388,660	8,600,636	152,562,429

Top 5 Customers in Firm Energy Sales

Rank	Customer	(MWh)	Percent of total sales
1	Tri-State Generation and Transmission Assoc.	1,376,080	18.1
2	Utah Associated Municipal Power	797,119	10.5
3	Plains Electric G&T	764,913	10.0
4	Platte River Power Authority	726,222	9.5
5	Salt River Project	507,619	6.7
	Total	4,171,953	54.8

Top 5 Customers in Firm Energy Revenue

Rank	Customer	(\$)	Percent of total revenue
1	Tri-State Generation and Transmission Assoc.	21,651,593	17.5
2	Utah Associated Municipal Power	13,210,357	10.7
3	Plains Electric G&T	12,337,277	10.0
4	Platte River Power Authority	10,870,850	8.8
5	Salt River Project	8,372,812	6.8
Total		66,442,889	53.6

Top 5 Customers in Nonfirm Energy Sales

Rank	Customer	(MWh)	Percent of total sales
1	Salt River Project	259,183	24.1
2	PacifiCorp	115,501	10.7
3	Public Service Company of New Mexico	102,317	9.5
4	Arizona Electric Power Coop.	95,388	8.9
5	Montana Power Company	59,737	5.6
Total		572,389	53.2

Top 5 Customers in Nonfirm Power Revenue

Rank	Customer	(\$)	Percent of total revenue
1	Salt River Project	4,767,956	24.4
2	Arizona Electric Power Coop.	1,836,107	9.4
3	Public Service Company of New Mexico	1,569,067	8.0
4	PacifiCorp	1,484,059	7.6
5	Public Service Company of Colorado	695,798	3.6
Total		9,657,189	49.5

Customers by State and Customer Category

State/ Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Arizona								
Municipalities	3	0	0	3	2	1	0	3
Cooperatives	0	0	1	1	0	0	1	1
Federal agencies	4	1	0	5	3	2	0	5
State agencies	1	1	0	2	0	2	0	2
Irrigation districts	10	0	0	10	8	1	0	9
Investor-owned utilities	0	0	2	2	0	0	2	2
California								
Municipalities	0	0	1	1	0	0	2	2
State agencies	0	0	2	2	0	0	1	1
Irrigation districts	0	0	1	1	0	0	1	1
Investor-owned utilities	0	0	0	0	0	0	2	2
Colorado								
Municipalities	14	1	0	15	13	2	0	15
Cooperatives	4	1	0	5	4	1	0	5
Federal agencies	1	0	0	1	1	0	0	1
State agencies	0	1	0	1	0	1	0	1
Investor-owned utilities	0	0	1	1	0	0	1	1
Power marketers	0	0	2	2	0	0	2	2
Idaho								
Investor-owned utilities	0	0	1	1	0	0	0	0
Massachusetts								
Power marketers	0	0	1	1	0	0	0	0
Missouri								
Investor-owned utilities	0	0	1	1	0	0	1	1
Montana								
Investor-owned utilities	0	0	1	1	0	0	1	1

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Customers by State and Customer Category, cont.

State/ Customer category	1999				1998			
	Firm only	Firm & nonfirm	Nonfirm only	Total	Firm only	Firm & nonfirm	Nonfirm only	Total
Nebraska								
State agencies	0	0	2	2	0	0	0	0
Power marketers	0	0	1	1	0	0	1	1
Nevada								
Cooperatives	1	0	0	1	0	1	0	1
State agencies	1	0	0	1	0	1	0	1
Investor-owned utilities	0	0	1	1	0	0	1	1
New Mexico								
Municipalities	3	2	0	5	1	4	0	5
Cooperatives	0	5	0	5	0	5	0	5
Federal agencies	4	0	0	4	3	1	0	4
Investor-owned utilities	0	0	1	1	0	0	1	1
Oklahoma								
Power marketers	0	0	0	0	0	0	1	1
Oregon								
Federal agencies	0	0	0	0	0	0	1	1
Texas								
Investor-owned utilities	0	0	0	0	0	0	1	1
Power marketers	0	0	2	2	0	0	1	1
Utah								
Municipalities ¹	3	32	0	35	3	32	1	36
Cooperatives	4	0	0	4	0	4	1	5
Federal agencies	3	0	0	3	2	1	0	3
State agencies	2	0	0	2	0	2	0	2
Irrigation districts ¹	3	0	0	3	2	1	0	3
Investor-owned utilities	0	0	1	1	0	0	1	1
Wyoming								
Municipalities	1	0	0	1	1	0	0	1
Cooperatives	2	0	0	2	1	1	0	2
State agencies	1	0	0	1	1	0	0	1
Canada								
Power marketers	0	0	2	2	0	0	0	0
Total Western	65	44	24	133	45	63	25	133
Summary by state								
Arizona	18	2	3	23	13	6	3	22
California	0	0	4	4	0	0	6	6
Colorado	19	3	3	25	18	4	3	25
Idaho	0	0	1	1	0	0	0	0
Massachusetts	0	0	1	1	0	0	0	0
Missouri	0	0	1	1	0	0	1	1
Montana	0	0	1	1	0	0	1	1
Nebraska	0	0	3	3	0	0	1	1
Nevada	2	0	1	3	0	2	1	3
New Mexico	7	7	1	15	4	10	1	15
Ohio	0	0	0	0	0	0	1	1
Oklahoma	0	0	0	0	0	0	1	1
Texas	0	0	2	2	0	0	2	2
Utah ¹	15	32	1	48	7	40	4	51
Wyoming	4	0	0	4	3	1	0	4
Canada	0	0	2	2	0	0	0	0
Total Western	65	44	24	133	45	63	25	133
Summary by customer category								
Municipalities ¹	24	35	1	60	20	39	3	62
Cooperatives	11	6	1	18	5	12	2	19
Federal agencies	12	1	0	13	9	4	1	14
State agencies	5	2	4	11	1	6	1	8
Irrigation districts ¹	13	0	1	14	10	2	1	13
Investor-owned utilities	0	0	9	9	0	0	11	11
Power marketers	0	0	8	8	0	0	6	6
Subtotal	65	44	24	133	45	63	25	133
Project use sales	4	0	0	4	4	0	0	4
Total Western	69	44	24	137	49	63	25	137
Interproject sales	0	0	2	2	0	0	2	2
	69	44	26	139	49	63	27	139

¹ Customer count includes 34 UAMPS members (31 municipalities and three irrigation districts).

Power Sales and Revenue

Customer	Service region	Contract rate of delivery		FY 1999		FY 1998	
		Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Municipalities							
Arizona							
AK-Chin Indian Community	DSW	4,244	1,920	17,127	274,170	31,952	559,393
Safford	DSW	1,227	560	12,181	228,881	12,202	237,890
Thatcher	DSW	556	363	4,028	76,849	2,741	49,771
Subtotal Arizona				33,335	579,901	46,895	847,055
California							
Anaheim	DSW			0	0	233	13,514
Los Angeles Department of Water & Power	DSW/CRSP			500	14,000	0	0
Los Angeles Department of Water & Power	DSW			0	0	1,000	16,850
Subtotal California				500	14,000	1,233	30,364
Colorado							
Arkansas River Power Authority	RMR	3,270	4,300	24,095	369,765	28,729	426,634
Aspen	RMR	1,062	1,677	11,990	200,982	7,935	130,421
Center	RMR	1,082	1,801	10,217	165,459	8,526	159,297
Colorado Springs Utilities	RMR	16,289	64,864	225,713	3,962,631	199,149	3,743,103
Colorado Springs Utilities	CRSP			640	30,420	225	6,525
Delta	RMR	1,510	1,721	8,329	124,181	10,355	187,901
Fleming	RMR	87	68	583	9,748	363	6,414
Fort Morgan	RMR	8,584	9,081	66,900	1,126,339	48,118	853,208
Frederick	RMR	38	45	364	6,070	291	4,978
Glenwood Springs	RMR	1,246	1,689	12,850	216,933	7,979	132,556
Gunnison	RMR	4,812	7,225	46,215	785,559	32,060	573,121
Haxtun	RMR	575	546	4,231	72,193	2,515	45,669
Holyoke	RMR	1,598	2,023	8,580	139,162	8,983	149,971
Oak Creek	RMR	320	485	3,083	52,093	1,901	33,957
Wray	RMR	501	1,059	6,658	118,989	4,680	87,033
Yuma	RMR	1,223	1,411	10,083	171,742	6,051	109,045
Subtotal Colorado				440,528	7,552,266	367,860	6,649,832
New Mexico							
Aztec	CRSP	2,039	2,778	16,067	296,664	12,222	222,904
Farmington	CRSP	19,523	18,866	124,685	2,055,247	107,106	1,874,729
Gallup	CRSP	3,439	3,592	24,748	384,407	24,859	428,744
Los Alamos County	CRSP	1,056	1,569	14,122	264,386	9,065	153,014
Truth or Consequences	CRSP	6,025	6,506	30,243	484,012	30,797	535,590
Subtotal New Mexico				209,866	3,484,716	184,049	3,214,981
Utah							
Brigham City	CRSP	8,932	12,594	52,276	838,751	50,858	907,780
Helper	CRSP	304	472	2,410	35,887	2,114	35,186
Utah Associated Municipal Power ¹	CRSP	139,999	207,336	798,719	13,243,917	816,976	15,049,998
Kanab ²	CRSP	0	0	0	0	1,824	31,011
Price	CRSP	1,119	1,702	9,825	151,894	9,201	160,192
Utah Municipal Power Agency	CRSP	79,126	93,566	432,727	6,996,414	431,581	7,647,995
Subtotal Utah				1,295,958	21,266,863	1,312,554	23,832,162
Wyoming							
Torrington	RMR	1,922	1,302	10,732	171,497	11,354	213,258
Subtotal Wyoming				10,732	171,497	11,354	213,258
Total municipalities				1,990,919	33,069,242	1,923,945	34,787,651
Rural electric cooperatives							
Arizona							
Arizona Electric Power Coop.	DSW/CRSP			77,962	1,190,880	25,620	435,350
Arizona Electric Power Coop.	CRSP			17,426	645,227	12,124	290,412
Subtotal Arizona				95,388	1,836,107	37,744	725,762
Colorado							
Grand Valley Electric Coop.	RMR	1,562	1,585	13,785	221,470	11,739	195,205
Holy Cross Electric Association	RMR	8,826	9,510	55,512	794,263	55,216	870,085
Intermountain Rural Electric Association	RMR	10,588	11,409	90,612	1,407,475	77,519	1,313,834
Tri-State Generation and Transmission Assn.	RMR	302,391	254,066	1,376,080	21,651,593	1,359,981	23,553,644
Tri-State Generation and Transmission Assn.	CRSP			7,325	117,452	26,020	405,595
Yampa Valley Electric Association	RMR	5,014	5,402	45,623	733,654	37,838	632,622
Subtotal Colorado				1,588,937	24,925,906	1,568,313	26,970,985

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Power Sales and Revenue, cont.

Customer	Service region	Contract rate of delivery		FY 1999		FY 1998	
		Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Nevada							
Mt. Wheeler Power Association	CRSP	23,946	16,902	125,202	2,139,993	107,791	1,938,529
Subtotal Nevada				125,202	2,139,993	107,791	1,938,529
New Mexico							
Central Valley Electric Coop.	CRSP	2,612	3,081	56,107	876,516	64,487	1,098,615
Farmers Electric Coop.	CRSP	2,576	2,353	52,769	831,219	62,052	1,066,347
Lea Co. Electric Coop.	CRSP	2,570	2,335	52,664	789,195	64,261	1,073,934
Plains Electric G&T	CRSP	142,303	177,722	765,188	12,346,602	832,894	14,774,144
Roosevelt Co. Electric Coop.	CRSP	2,869	2,517	54,772	855,052	64,799	1,097,770
Subtotal New Mexico				981,500	15,698,583	1,088,493	19,110,810
Utah							
Deseret Generation and Trans. Assn.	CRSP			0	0	3,520	35,200
Dixie-Escalante Rural Electric Association	CRSP	19,072	24,085	126,332	2,183,411	109,875	1,992,457
Flowell Electric Association	CRSP	4,475	385	16,002	258,963	13,936	242,237
Garkane Power Association	CRSP	14,556	19,679	95,506	1,629,744	82,170	1,505,560
Moon Lake E.A.	CRSP	50,142	62,822	331,080	5,745,471	288,394	5,199,395
Subtotal Utah				568,919	9,817,589	497,895	8,974,849
Wyoming							
Bridger Valley Electric Coop.	CRSP	8,497	10,558	56,282	940,967	50,993	896,982
Willwood Light & Power Company	RMR	50	39	390	6,853	306	5,689
Subtotal Wyoming				56,672	947,820	51,299	902,671
Total cooperatives				3,416,618	55,365,999	3,351,535	58,623,605
Federal agencies							
Arizona							
Colorado River Agency—BIA	DSW	442	881	7,790	136,620	3,095	55,983
Luke Air Force Base	DSW	2,265	912	11,314	180,248	10,685	194,069
Navajo Tribal Utility Authority	CRSP	21,802	23,677	174,565	2,651,298	150,678	2,434,432
Navajo Tribal Utility Authority ³	CRSP	12,000	0	52,704	674,582	0	0
San Carlos Irrigation Project—BIA	DSW	1,366	1,840	187,298	2,988,611	108,977	1,917,446
Yuma Proving Ground	DSW	347	415	1,954	30,471	1,883	32,784
Subtotal Arizona				435,625	6,661,830	275,318	4,634,714
Colorado							
Pueblo Army Depot	RMR	2,641	2,856	6,864	159,628	6,139	172,242
Subtotal Colorado				6,864	159,628	6,139	172,242
New Mexico							
Albuquerque Operations Office—DOE	CRSP	34,883	36,127	105,504	2,253,739	103,773	2,429,326
Cannon AFB	CRSP	1,387	1,419	11,655	188,468	9,665	168,979
Holloman Air Force Base	CRSP	1,925	2,065	11,430	167,664	11,105	181,449
Kirtland Air Force Base	CRSP	3,555	3,592	18,511	301,655	18,141	317,674
Subtotal New Mexico				147,100	2,911,526	142,684	3,097,428
Oregon							
Bonneville Power Admin.				0	0	15,920	523,760
Subtotal Oregon				0	0	15,920	523,760
Utah							
Defense Depot Ogden	CRSP	3,169	3,532	16,360	260,526	16,275	284,584
Hill Air Force Base	CRSP	3,555	3,592	28,347	459,609	24,659	426,512
Tooele Army Depot	CRSP	920	1,307	6,377	93,372	7,297	120,216
Subtotal Utah				51,084	813,506	48,231	831,313
Total Federal agencies				640,673	10,546,491	488,292	9,259,457
State agencies							
Arizona							
Arizona Power Pool Association	DSW	27,275	13,568	103,729	1,594,365	102,995	1,735,471
Salt River Project	DSW	103,224	52,113	507,619	8,372,812	569,320	10,695,490
Salt River Project	DSW/CRSP			232,061	4,431,011	260	7,260
Salt River Project	CRSP			27,122	336,945	335,407	5,335,399
Subtotal Arizona				870,532	14,735,133	1,007,982	17,773,620

Continued on next page.

Power Sales and Revenue, cont.

Customer	Service region	Contract rate of delivery		FY 1999		FY 1998	
		Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
California							
California ISO	CRSP			300	75,000	0	0
Metropolitan Water District of So. Calif.	CRSP			6,537	84,285	42,325	876,400
Metropolitan Water District of So. Calif.	DSW/CRSP			0	0	39,439	499,099
Subtotal California				6,837	159,285	81,764	1,375,499
Colorado							
Platte River Power Authority	CRSP			60	2,640	1,701	35,077
Platte River Power Authority	RMR	113,902	145,955	726,222	10,870,850	759,799	12,438,599
Subtotal Colorado				726,282	10,873,490	761,500	12,473,676
Nebraska							
Municipal Energy of Nebraska	CRSP			575	8,720	0	0
Nebraska Public Power District	CRSP			200	2,250	0	0
Subtotal Nebraska				775	10,970	0	0
Nevada							
Colorado River Commission	DSW	22,420	29,477	227,224	4,128,866	152,265	2,679,282
Subtotal Nevada				227,224	4,128,866	152,265	2,679,282
Utah							
University of Utah	CRSP	3,104	3,461	27,368	433,202	23,218	394,996
Utah State University	CRSP	1,124	1,152	9,575	156,668	8,176	138,658
Subtotal Utah				36,943	589,869	31,394	533,654
Wyoming							
Wyoming Municipal Power Agency	RMR	5,036	6,731	28,800	461,650	28,004	502,797
Subtotal Wyoming				28,800	461,650	28,004	502,797
Total state agencies				1,897,392	30,959,263	2,062,909	35,338,529
Irrigation districts							
Arizona							
Chandler Heights Citrus	DSW	400	302	0	0	672	12,919
ED-3 Pinal	DSW	8,631	2,880	4,551	35,689	20,570	503,381
ED-4	DSW	4,897	3,680	21,375	360,114	0	0
ED-5 Maricopa	DSW	1,274	233	4,108	60,227	3,949	64,071
ED-5 Pinal	DSW	2,948	2,633	12,225	205,347	0	0
ED-6 Pinal	DSW	6,245		13,176	222,874	0	0
ED-7 Maricopa County	DSW	4,807	729	0	0	4,575	123,279
Maricopa City MWCD No. 1	DSW	5,748	2,373	9,257	88,824	7,449	212,217
Queen Creek Irrigation District	DSW	1,887	0	5,289	81,791	4,844	78,187
Roosevelt Irrigation District	DSW	5,243	1,761	26,352	397,511	30,999	627,309
Roosevelt WC District	DSW	2,364	1,616	3,597	62,486	9,816	168,315
San Tan Irrigation District	DSW	882		0	0	0	0
Wellton-Mohawk I&DD	DSW	146	448	1,411	0	19,305	347,516
Subtotal Arizona				101,341	1,514,864	102,179	2,137,194
California							
Imperial Irrigation District	DSW/CRSP			180	8,640	550	10,600
Subtotal California				180	8,640	550	10,600
Total irrigation districts				101,521	1,523,504	102,729	2,147,794
Investor-owned utilities ⁴							
Arizona							
Arizona Public Service Company	DSW/CRSP			10,655	197,017	0	0
Arizona Public Service Company	CRSP			700	9,253	82,024	1,551,555
Tucson Electric Power Company	DSW/CRSP			13,505	293,790	0	0
Tucson Electric Power Company	CRSP			1,600	18,920	81,479	1,443,180
Subtotal Arizona				26,460	518,980	163,503	2,994,734
California							
Pacific Gas & Electric Co.	CRSP			0	0	5,282	72,989
Pacific Gas & Electric Co.	DSW/CRSP			0	0	2,400	31,440
Southern California Edison Co.	DSW/CRSP			0	0	20,711	426,821
Subtotal California				0	0	28,393	531,250

Continued on next page.

Power Sales and Revenue, cont.

Customer	Service region	Contract rate of delivery		FY 1999		FY 1998	
		Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Colorado							
Public Service Company of Colorado	CRSP			52,306	695,798	78,666	1,092,544
Subtotal Colorado				52,306	695,798	78,666	1,092,544
Idaho							
Idaho Power Co	CRSP			8,817	123,927	0	0
Subtotal Idaho				8,817	123,927	0	0
Missouri							
UtiliCorp Power Services	CRSP			536	18,538	11,061	286,740
Subtotal Missouri				536	18,538	11,061	286,740
Montana							
Montana Power Company	CRSP			59,737	538,355	1,435	23,590
Subtotal Montana				59,737	538,355	1,435	23,590
Nevada							
Nevada Power Company	DSW/CRSP			0	0	9,070	204,080
Nevada Power Company	CRSP			5,777	141,276	5,224	120,932
Subtotal Nevada				5,777	141,276	14,294	325,012
New Mexico							
Public Service Company of New Mexico	CRSP			102,317	1,569,067	125,584	2,118,286
Subtotal New Mexico				102,317	1,569,067	125,584	2,118,286
Texas							
El Paso Electric Company	CRSP			0	0	190	5,356
Subtotal Texas				0	0	190	5,356
Utah							
PacifiCorp	CRSP			115,501	1,484,059	95,874	1,762,419
Subtotal Utah				115,501	1,484,059	95,874	1,762,419
Total investor-owned utilities				371,451	5,090,000	519,000	9,139,930
Power marketers ⁴							
Colorado							
Rocky Mountain Generation Cooperative	CRSP			1,020	28,659	360	3,055
E-Prime	DSW/CRSP			5,784	89,941	8,515	98,610
Subtotal Colorado				6,804	118,600	8,875	101,665
Massachusetts							
New Energy Ventures	CRSP			200	3,200	0	0
Subtotal Massachusetts				200	3,200	0	0
Nebraska							
Aquila Power Corp.	DSW/CRSP			187	14,960	0	0
ConAgra Energy Service	CRSP			0	0	16,400	200,600
Subtotal Nebraska				187	14,960	16,400	200,600
Oklahoma							
Williams Field Services	CRSP			0	0	86	1,942
Subtotal Oklahoma				0	0	86	1,942
Texas							
Coral Power	CRSP			0	0	550	33,500
Electric Clearing House, Inc.	CRSP			80	1,360	0	0
Enron Power Marketing	CRSP			4,400	140,800	0	0
Subtotal Texas				4,480	142,160	550	33,500
Utah							
Illinova	CRSP			0	0	1,375	37,763
Subtotal Utah				0	0	1,375	37,763
Canada							
PowerEx	CRSP			15,131	246,017	0	0
Subtotal Canada				15,131	246,017	0	0
Total power marketers				26,802	524,937	27,286	375,470

Continued on next page.

Power Sales and Revenue, cont.

Customer	Service region	Contract rate of delivery		FY 1999		FY 1998	
		Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
SLCA/IP subtotal				8,445,378	137,079,436	8,475,696	149,672,436
Project use sales				60,493	1,157,784	69,296	1,375,216
Interproject sales							
Arizona							
Parker-Davis Project	CRSP			22,039	469,603	29,389	793,892
Subtotal Arizona				22,039	469,603	29,389	793,892
Colorado							
Loveland Area Projects	CRSP			163,031	4,681,838	26,255	720,886
Subtotal Colorado				163,031	4,681,838	26,255	720,886
Total interproject sales				185,070	5,151,441	55,644	1,514,778
Salt Lake City Area/Integrated Project total				8,690,941	143,388,660	8,600,636	152,562,429

¹ UAMPS individual customer totals were not calculated for FY 1998 to more clearly represent UAMPS total revenues.

² Kanab was an independent customer until it joined UAMPS in 1996.

³ Assigned from Navajo Indian Irrigation Project power reservation for on-farm uses and other municipal and industrial purposes.

⁴ These sales are listed by the location of the marketing entity or investor-owned utility. They do not necessarily reflect the state where the energy was delivered.

Transmission Revenue

Transmission service	FY 1999	FY 1998
	Revenue (\$)	Revenue (\$)
Long-term firm point-to-point ¹	14,191,029	12,373,642
Nonfirm point-to-point	3,160,684	1,690,873
Total	17,351,713	14,064,515

¹ Differs from financial statements by approximately \$71,000 due to reclassification.

Ancillary Services Revenue

Ancillary service	FY 1999	FY 1998
	Revenue (\$)	Revenue (\$)
Scheduling and dispatch service	20,839	9,876
Regulation and frequency response	308,181	139,763
Total	329,020	149,639

Collbran Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	34,420	0	2,493	36,914
Total operating revenue	34,420	0	2,493	36,914
Expenses:				
O & M and other	14,624	0	1,176	15,800
Interest				
Federally financed	11,254	0	169	11,423
Total interest	11,254	0	169	11,423
Total expense	25,878	0	1,345	27,223
Investment:				
Federally financed power	14,743	0	0	14,743
Nonpower	5,059	0	0	5,059
Total investment	19,802	0	0	19,802
Investment repaid:				
Federally financed power	8,542	0	1,149	9,691
Total investment repaid	8,542	0	1,149	9,691
Investment unpaid:				
Federally financed power	6,201	0	(1,149)	5,052
Nonpower	5,059	0	0	5,059
Total investment unpaid	11,260	0	(1,149)	10,111
Percent of investment repaid to date:				
Federal	57.94%			65.73%

¹ Based on the Preliminary 1999 Power Repayment Study.

Colorado River Storage Project Status of Repayment Cumulative activities as of Sept. 30, 1999 (Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	2,589,660	0	121,320	2,710,980
Income transfers (net)	154	0	0	154
Total operating revenue	2,589,814	0	121,320	2,711,134
Expenses:				
O & M and other	799,000	0	49,056	848,056
Purchase power and wheeling	556,378	0	7,525	563,903
Interest				
Federally financed	606,428	0	26,677	633,105
Total interest	606,428	0	26,677	633,105
Total expense	1,961,805	0	83,258	2,045,064
Investment:				
Federally financed power	1,042,579	0	33,155	1,075,734
Nonpower	2,280,411	0	669,327 ²	2,949,738
Total Investment	3,322,990	0	702,482	4,025,472
Investment repaid:				
Federally financed power	628,008	0	38,062	666,070
Total Investment repaid	628,008	0	38,062	666,070
Investment unpaid:				
Federally financed power	414,571	0	(4,907)	409,664
Nonpower	2,280,411	0	669,327	2,949,738
Total investment unpaid	2,694,982	0	664,420	3,359,402
Percent of investment repaid to date:				
Federal	60.24%			61.92%

¹ Based on the Preliminary 1999 Power Repayment Study.

² This amount reflects additions to CRSP irrigation assistance obligations relating to Diamond Fork construction of the Bonneville Unit, Central Utah Project.

Rio Grande Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	72,875	0	2,109	74,983
Total operating revenue	72,875	0	2,109	74,983
Expenses:				
O & M and other	34,876	0	1,891	36,767
Purchase power and other	4,774	0	0	4,774
Interest				
Federally financed	14,060	0	11	14,071
Total interest	14,060	0	11	14,071
Total expense	53,710	0	1,902	55,612
(Deficit)/surplus revenue	(79)	0	46	(33)
Investment:				
Federally financed power	13,667	0	0	13,667
Nonpower	5,802	0	0	5,802
Total investment	19,468	0	0	19,468
Investment repaid:				
Federally financed power	13,441	0	161	13,602
Nonpower	5,802	0	0	5,802
Total investment repaid	19,243	0	161	19,404
Investment unpaid:				
Federally financed power	225	0	(161)	65
Total investment unpaid	225	0	(161)	65
Percent of investment repaid to date:				
Federal	98.35%			99.53%
Nonpower	100.00%			100.00%

¹ Based on the Preliminary 1999 Power Repayment Study.

Seedskadee Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	15,824	0	1,374	17,198
Total operating revenue	15,824	0	1,374	17,198
Expenses:				
O & M and other	6,999	0	433	7,432
Interest				
Federally financed	5,545	0	361	5,906
Total interest	5,545	0	361	5,906
Total expense	12,544	0	793	13,337
Investment:				
Federally financed power	7,455	0	0	7,455
Total investment	7,455	0	0	7,455
Investment repaid:				
Federally financed power	3,280	0	581	3,860
Total investment repaid	3,280	0	581	3,860
Investment unpaid:				
Federally financed power	4,175	0	(581)	3,594
Total investment unpaid	4,175	0	(581)	3,594
Percent of investment repaid to date:				
Federal	44.00%			51.78%

¹ Based on the Preliminary 1999 Power Repayment Study.

Dolores Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	10,757	0	2,893	13,650
Income transfers (net)	36	0	0	36
Total operating revenue	10,793	0	2,893	13,686
Expenses:				
O & M and other	1,463	0	533	1,997
Interest				
Federally financed	8,334	0	2,359	10,693
Total interest	8,334	0	2,359	10,693
Total expense	9,797	0	2,893	12,690
Federally financed power	35,825	0	0	35,825
Total investment	35,825	0	0	35,825
Investment repaid:				
Federally financed power	996	0	0	996
Total investment repaid	996	0	0	996
Investment unpaid:				
Federally financed power	34,829	0	(0)	34,828
Total investment unpaid	34,829	0	(0)	34,828
Percent of investment repaid to date:				
Federal	2.78%			2.78%

¹ Based on the Preliminary 1999 Power Repayment Study.

1 OTHER PROJECTS

Central Arizona Project

The Central Arizona Project is one of three related water development projects that make up the Colorado River Basin Project. The others are the Dixie and the Upper Basin projects. The Central Arizona Project was developed for Arizona and western New Mexico; the Dixie Project for southeastern Utah; and the Upper Basin Project for Colorado and New Mexico.

Congress authorized the project in 1968 to improve water resources in the Colorado River basin. Segments of the 1968 authorization allowed Federal participation in the Navajo Generating Station, which has three coal-fired steam electric generating units for a combined capacity of 2.25 million kW. Construction of the plant, located near Lake Powell at Page, Ariz., began in 1970. Navajo began generating in 1976.

The Federal share of 24.3 percent, or 546,750 kW, is used to power pumps that move Colorado River water through CAP canals. Surplus generation is currently marketed under the Navajo Power Marketing Plan adopted on Dec. 1, 1987.

About 400,000 kW is currently marketed as surplus, with 760 kWh of energy available annually with each kW of capacity. Western's Desert Southwest Customer Service Region markets Navajo power on behalf of the Bureau of Reclamation's Central Arizona Project.

As of June 1, 1994, Western, Reclamation, the Salt River Project and the Central Arizona Water Conservation District entered into an agreement in which the Salt River Project Agricultural Improvement and Power District in Arizona schedules and operates the Federal share of the Navajo generating station. This arrangement will remain in effect until Sept. 30, 2016.

In addition, an agreement was established in which all surplus spot market energy sales are now managed to benefit CAP. This agreement will remain in effect until Sept. 30, 2011. SRP pays a flat fee plus a variable energy charge (including a generation operating charge, generation energy charge, transmission operating charge and charge to cover Western and Reclamation costs).

Net operating revenue in FY 1999 was approximately \$95 million, of which \$92 million was subsequently transferred to Reclamation. The Federal share of Navajo net generation rose from 3,504 million kWh in FY 1998 to 4,072 million kWh in FY 1999.

Falcon-Amistad Project

Falcon-Amistad Project consists of two international dams located on the Rio Grande River between Texas and Mexico. The United States and Mexico share and operate separate powerplants on each side of the Rio Grande River. The power output is divided evenly between the two nations. The State Department's International Boundary and Water Commission operates the U.S. portion of the

projects. Falcon Dam is located about 130 miles (209 km) upstream from Brownsville, Texas. The United States' portion of construction, operation and maintenance was authorized by Congress in 1950. Construction was started in that year and completed in 1954. The United States' share of Falcon Powerplant capacity is 31,500 kW. The powerplant came on line in 1954.

Amistad Dam is located about 300 miles (482.7 km) upstream from Falcon Dam. The Amistad Powerplant was constructed by the U.S. Army Corps of Engineers, as agent for the IBWC. The United States' portion of construction, operation and maintenance was authorized by the Mexican-American Treaty Act of 1950. Amistad powerplant has a generation capacity of 66,000 kW. Construction was started in 1960 and completed in 1969. Its two generating units came on line in 1983.

Project power is marketed to two cooperatives in south Texas via Central Power and Light Company's transmission system. A total of 88 million kWh of energy was delivered in FY 1999.

The five-year net generation average is 124 million kWh. Repayment is made through annual installments. Western received \$3.3 million in FY 1999. These installments are established in advance by Western and the customers on or before Aug. 31 of the year preceding the appropriate fiscal year. Each annual installment pays the amortized portion of the U.S. investment in the Falcon and Amistad hydroelectric facilities with interest, and associated operation, maintenance and administrative costs. This repayment schedule does not depend upon the amount of power and energy delivered or the amount of generation each year.

Pacific NW-SW Intertie Project

The Pacific Northwest-Pacific Southwest Intertie was authorized by Section 8 of the Pacific Northwest Power Marketing Act of Aug. 31, 1964. Originally, the Intertie was to be a combined AC and DC system, which was to connect the Pacific Northwest with the Desert Southwest. As authorized, the overall project was to be a cooperative construction venture between Federal and non-Federal entities.

Due to delays in construction funding, the estimated in-service date of the Intertie was revised to the point that interest by potential users waned. These events resulted in the indefinite postponement of DC line construction. Consequently, the facilities constructed provide only AC transmission service.

Western's portion of the Intertie consists of two parts, a northern portion and a southern portion. The northern portion is administered by Western's Sierra Nevada Region and is incorporated, for repayment and operation, with the Central Valley Project. The northern portion consists of a 94-mile (151 km), 500-kV line from Malin Substation (Ore.) to Round Mountain to Cottonwood

[Continued on next page.](#)

Substation (Calif.). By agreement, the Central Valley Project has transmission rights for 400 MW of northern Intertie capacity.

The southern portion is administered by Western's Desert Southwest Region and is treated as a separate (stand alone) project for repayment and operational purposes. It consists of a 238-mile (383 km), 345-kV line from Mead Substation (Nev.) to Liberty Substation (Ariz.), a 19-mile (31 km), 230-kV line from Liberty to Westwing Substation (Ariz.), a 22-mile (35 km), 230-kV line from Westwing to Pinnacle Peak Substation (Ariz.) and two new segments that came on-line in April 1996: the 260-mile (419 km) Mead-Phoenix 500-kV AC Transmission Line between Marketplace Substation (Nev.) and Perkins Substation (Ariz.) and the 202-mile (325 km) Mead-Adelanto 500-kV AC Transmission Line between Marketplace and the existing Adelanto Switching Substation in southern California.

Current rates for firm and nonfirm transmission service went into effect on Feb. 1, 1996. Current rates for firm transmission over the 230-kV and 345-kV transmission lines were revised and became effective Jan. 1, 1999.

Provo River Project

The Provo River Project was authorized in 1935. Construction on the project, which includes Deer Creek Dam and Powerplant on the Provo River in Utah, began in 1938 but, because of World War II, was not completed until 1951. The powerplant, authorized on Aug. 20, 1951, was completed and generation began in 1958. Its maximum operating capacity is 5,300 kW.

Before Nov. 1999, summer energy was purchased by the Colorado River Storage Project and winter energy interchanged with Utah Power and Light Company in accordance with a 1933 agreement.

Provo River Project power is now marketed independently from the SLCA/IP subsequent to a new marketing plan that was approved and published in the Federal Register on Nov. 21, 1994. This marketing plan allows Western to market the output of the Provo River Project to customers of Utah Municipal Power Agency and Utah Associated Municipal Power Systems in the Provo River drainage.

The five-year generation average is 29.7 million kWh. A total of 17 million kWh of energy was sold and a total of \$208,000 in revenue was collected in FY 1999.

As provided in Rate Order No. WAPA-87 published in the Federal Register on March 2, 2000, Provo River Project customers pay all operating, maintenance and replacement expenses of the project each year and in return receive all of the energy produced by the project.

[Continued on next page.](#)

Washoe Project

The Washoe Project in west-central Nevada and east-central California was designed to improve the regulation of runoff from the Truckee and Carson river system and to provide supplemental irrigation water and drainage, as well as water for municipal, industrial and fishery use. Additionally, it offers flood protection, fish and wildlife benefits and recreation.

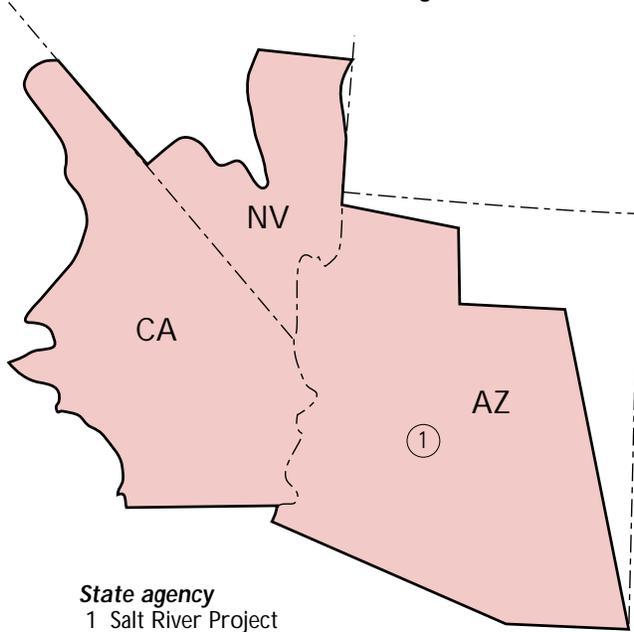
The project was authorized by the Washoe Project Act of Aug. 1, 1956, and was constructed between 1960 and 1976, with the powerplant at Stampede Dam added in 1986. Prosser Creek Dam, Marble Creek Dam and Pyramid Lake fishway are also part of the project. The powerplant at Stampede Dam has a maximum installed capacity of 3,333 kW.

Sierra Nevada Region markets energy and sets power rates for the project. FY 1999 net generation was 15 million kWh, compared to 11 million kWh in FY 1998. Generation from Washoe Project's Stampede powerplant, over that used for project use service, is sold as nonfirm power to Sierra Pacific Power Company at a market rate of 15.08 mills per kWh. To adequately repay the project, a rate of 62.50 mills per kWh would be required.

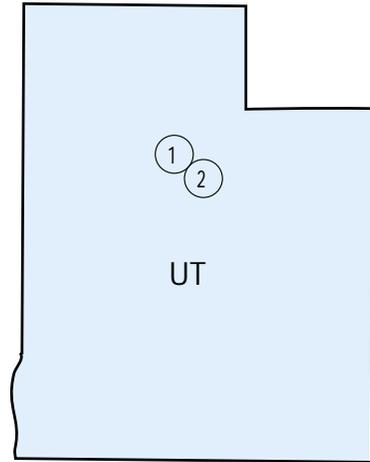
100 OTHER PROJECTS

Firm Power Customers and Marketing Area

Central Arizona Project



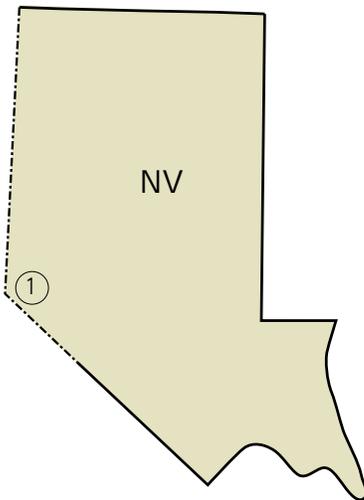
Provo River Project



Municipalities

- 1 Utah Assoc. of Municipal Power Systems
- 2 Utah Municipal Power Agency

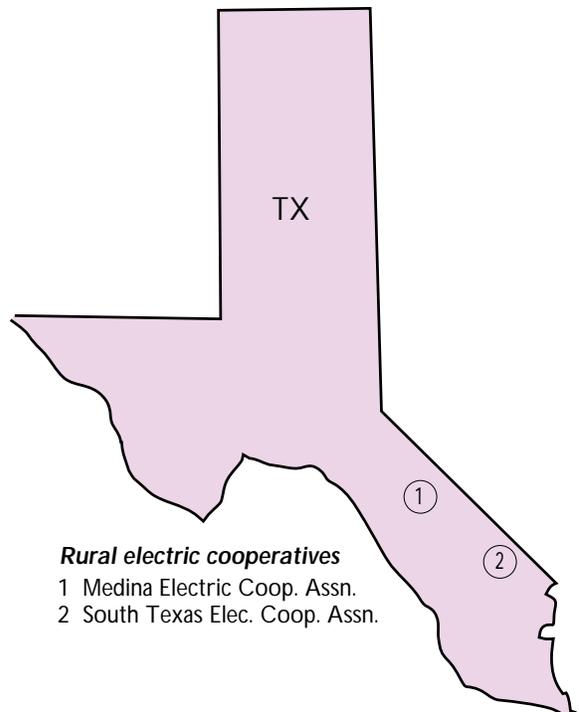
Washoe Project



Investor-owned utility

- 1 Sierra-Pacific Power Co.

Falcon-Amistad Project



Rural electric cooperatives

- 1 Medina Electric Coop. Assn.
- 2 South Texas Elec. Coop. Assn.

Central Arizona Project

Energy Resource and Disposition

	(GWh)	
	FY 1999	FY 1998
Energy resource		
Net generation	4,072	3,504
Total energy resources	4,072	3,504
Energy disposition		
Sales of electric energy		
Western sales	4,072	3,504
Total energy sales	4,072	3,504
Total energy delivered	4,072	3,504
Total energy disposition	4,072	3,504

Facilities and Substations

Facility	FY 1999	FY 1998
Substations		
Number of substations	1	1
Number of transformers	5	5
Transformer capacity (kVA)	228,000	228,000
Buildings and communications sites		
Number of buildings	1	1

Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability FY 1999 (MW)	Actual operating capability (MW)		Net generation (GWh) ¹	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Arizona									
Navajo	SRP ²	N/A	May 74	3	547 ³	547	547	4,072	3,504
Central Arizona total				3	547	547	547	4,072	3,504

¹ Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

² Salt River Project

³ United States' share (24.3 percent) of 2,250 MW plant capability.

Power Sales and Revenue

Customer	1999		1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
State agencies				
Arizona				
Salt River Project ¹	4,072,000	74,879,056	3,504,000	70,770,835
Subtotal Arizona	4,072,000	74,879,056	3,504,000	70,770,835
Total state agencies	4,072,000	74,879,056	3,504,000	70,770,835
Central Arizona Project total	4,072,000	74,879,056	3,504,000	70,770,835

¹ Western contractually agreed for the Salt River Project to act as the scheduling entity and operating agent for the CAP portion of the Navajo Generating Station (547 MW) on June 1, 1994. SRP agreed to pay a monthly fixed and variable fee to meet these repayment requirements.

Transmission Revenue

Transmission service	FY 1999	FY 1998
	Revenue (\$)	Revenue (\$)
Long-term firm point-to-point	22,063,516	22,053,765
Total	22,063,516	22,053,765

Central Arizona Project Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998 ¹	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	1,359,968	0	98,556	1,458,524
Income transfers (net)	(512,004)	0	(96,576)	(608,580)
Total operating revenue	847,964	0	1,980	849,944
Expenses:				
O & M and other	839,486	0	1,297	840,783
Purchase power and other	175	(175) ²	0	0
Interest				
Federally financed	15	0	15	30
Total interest	15	0	15	30
Total expense	839,676	(175)	1,312	840,813
(Deficit)/surplus revenue	8,288	175	668	9,131

¹ Based on the Fiscal Year 1999 power operations and maintenance report and the unaudited financial statements.

² Accounting adjustment to correct posting error.

Falcon-Amistad Project

Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability FY 1999 (MW)	Actual operating capability (MW)		Net generation (GWh) ¹	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Texas									
Amistad	IBWC	Rio Grande	Jun 83	2	66	66	46	56	103
Falcon	IBWC	Rio Grande	Oct 54	3	32	32	18	31	34
Falcon-Amistad Total				5	98	98	64	88	137

¹ Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.
IBWC - International Boundary and Water Commission, U.S. Dept. of State

Marketing Plan Summary

Project	Expiration Date
Falcon-Amistad	June 8, 2033

Power Sales and Revenue

Customer	Service region	Contract rate of delivery ¹		FY 1999		FY 1998	
		Summer (kW)	Winter (kW)	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Rural electric cooperatives							
Texas							
Medina Electric Cooperative and South Texas Electric Cooperative	CRSP			87,958	3,291,652	137,045	3,588,928
Subtotal Texas				87,958	3,291,652	137,045	3,588,928
Total rural electric cooperatives				87,958	3,291,652	137,045	3,588,928
Total Falcon-Amistad				87,958	3,291,652	137,045	3,588,928

¹ Falcon-Amistad power is sold to Medina Electric Coop Assn., and South Texas Electric Cooperative Association on a take-all, pay-all basis.

Rate Action Summary

Rate order no.	Project	Type of rate action	Date of notice of public participation	Rate schedule designation	Effective date of rate (first day of first full billing period)	Annual incremental \$(000)	Notes	Date submitted to FERC
WAPA-85	Amistad/Falcon	Extension	N/A	N/A	6/8/99	N/A	Rate formula extension	5/7/99

Falcon-Amistad Project Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	69,386	0	3,624	73,010
Total operating revenue	69,386	0	3,624	73,010
Expenses:				
O & M and other	18,319	0	1,010	19,329
Interest				
Federally financed	41,485	0	2,229	43,714
Total interest	41,485	0	2,229	43,714
Total expense	59,804	0	3,239	63,043
(Deficit)/surplus revenue	(275)	0	0	(275)
Investment:				
Federally financed power	44,508	0	0	44,508
Total investment	44,508	0	0	44,508
Investment repaid:				
Federally financed power	9,858	0	385	10,243
Total investment repaid	9,858	0	385	10,243
Investment unpaid:				
Federally financed power	34,650	0	(385)	34,265
Total investment unpaid	34,650	0	(385)	34,265
Percent of investment repaid to date:				
Federal	22.15%			23.01%

¹ Based on preliminary FY 1999 Power Repayment Study.

Pacific NW-SW Intertie Project

Facilities and Substations

Facility	FY 1999	FY 1998	Facility	FY 1999	FY 1998
Substations			Land (easement)		
Number of substations	3	3	Acres	117.18	117.18
Number of transformers	5	5	Hectares	47.44	47.44
Transformer capacity (kVA)	5,131,167	5,131,167			
Land (fee)			Buildings and communications sites		
Acres	4,528.71	4,528.71	Number of buildings	9	9
Hectares	1,833.49	1,833.49			

Transmission Lines

Voltage rating	Arizona		California		Nevada		Total	
	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998	FY 1999	FY 1998
500-kV								
Circuit miles	0.00	0.00	448.27 ¹	448.27	0.00	0.00	448.27	448.27
Circuit kilometers	0.00	0.00	721.27	721.27	0.00	0.00	721.27	721.27
Acres	5,361.25	5,190.83	5,133.37	5,524.73	2,234.82	1,163.06	12,729.44	11,878.62
Hectares	2,170.55	2,101.56	2,078.29	2,236.74	904.79	470.88	5,153.63	4,809.17
345-kV								
Circuit miles	226.63	226.63	0.00	0.00	11.40	11.40	238.03	238.03
Circuit kilometers	364.65	364.65	0.00	0.00	18.34	18.34	382.99	382.99
Acres	4,117.50	4,148.64	0.00	0.00	185.40	0.00	4,302.90	4,148.64
Hectares	1,667.01	1,679.62	0.00	0.00	75.06	0.00	1,742.07	1,679.62
230-kV								
Circuit miles	41.39	41.39	33.59	33.59	0.00	0.00	74.98	74.98
Circuit kilometers	66.60	66.60	54.05	54.05	0.00	0.00	120.64	120.64
Acres	0.00	0.00	569.72	598.68	0.00	0.00	569.72	598.68
Hectares	0.00	0.00	230.66	242.38	0.00	0.00	230.66	242.38
69-kV and below								
Circuit miles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Circuit kilometers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acres	89.14	0.00	0.00	0.00	278.78	678.78	367.92	678.78
Hectares	36.09	0.00	0.00	0.00	112.87	274.81	148.96	274.81
Totals								
Circuit miles	268.02	268.02	481.86	481.86	11.40	11.40	761.28	761.28
Circuit kilometers	431.24	431.24	775.31	775.31	18.34	18.34	1,224.90	1,224.90
Acres	9,567.89	9,339.47	5,703.09	6,123.41	2,699.00	1,841.84	17,969.98	17,304.72
Hectares	3,873.65	3,781.17	2,308.95	2,479.12	1,092.71	745.69	7,275.31	7,005.98

¹ Includes 350 miles of California-Oregon Transmission Project transmission lines, which is legislatively separate.

Rate Action Summary

Rate order No.	Project	Type of rate action	Date of notice of public participation	Rate schedule designation	Effective date of rate (first day of first full billing period)	Annual incremental \$(000)	Notes	Date submitted to FERC
WAPA-84	Intertie	Rate methodology	6/19/98	Various	4/1/99	N/A	Transmission	4/1/99
WAPA-76	Intertie	Increase	4/3/98	INT-FT3	1/1/99	\$5,691	Transmission	1/27/99

Transmission Revenue

Transmission service	FY 1999 Revenue (\$)	FY 1998 Revenue (\$)
Long-term firm point-to-point	7,586,643	5,667,779
Nonfirm point-to-point	417,510	8,909
Total	8,004,153	5,676,688

Ancillary Services Revenue

Ancillary service	FY 1999 Revenue (\$)	FY 1998 Revenue (\$)
Operating reserves—spinning	135,870	2,000
Total	135,870	2,000

Pacific NW - SW Intertie Project Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	109,640	0	8,702	118,342
Total operating revenue	109,640	0	8,702	118,342
Expenses:				
O & M and other	52,652	(2) ²	5,113	57,763
Interest				
Federally financed	83,249	990 ³	17,961	102,200
Non-Federally financed	0			0
Total interest	83,249	990	17,961	102,200
Total expense	135,901	988	23,074	159,963
(Deficit)/surplus revenue	(27,782)	(988)	(14,372)	(43,142)
Investment:				
Federally financed power	208,487	0	344	208,831
Total investment	208,487	0	344	208,831
Investment repaid:				
Federally financed power	1,521	0	0	1,521
Total investment repaid	1,521	0	0	1,521
Investment unpaid:				
Federally financed power	206,966	0	344	207,310
Total Investment unpaid	206,966	0	344	207,310
Percent of investment repaid to date:				
Federal	0.73%			0.73%

¹ Based on the preliminary 1998 Power Repayment Study dated Jan. 18, 2000.

² FY 1998 O&M expense adjustment to correct an overstatement of revenues.

³ FY 1998 adjustment to correct an understatement of interest expenses.

Provo River Project

Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capability FY 1999 (MW)	Actual operating capability (MW)		Net generation (GWh) ¹	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
Utah									
Deer Creek	PWUA	Provo	Feb 58	2	5	5	5	17	32
Provo River total				2	5	5	5	17	32

¹ Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

PWUA - Provo Water Users Association

Marketing Plan Summary

<u>Project</u>	<u>Expiration Date</u>
Provo River	Sept. 30, 2008

Power Sales and Revenue

Customer	1999		1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Municipalities				
Utah				
Utah Association of Municipal Power Systems	2,401	62,478	9,743	79,510
Utah Municipal Power Agency	14,550	145,783	22,733	185,522
Subtotal Utah	16,951	208,261	32,475	265,032
Total municipalities	16,951	208,261	32,475	265,032
Provo River Project total	16,951	208,261	32,475	265,032

Provo River Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999 ¹
Revenue:				
Gross operating revenue	5,858	0	328	6,186
Total operating revenue	5,858	0	328	6,186
Expenses:				
O & M and other	3,454	0	203	3,657
Purchase power and other	80	0	30	109
Interest				
Federally financed	762	0	27	789
Total interest	762	0	27	789
Total expense	4,296	0	259	4,555
(Deficit)/surplus revenue	193	0	23	217
Investment:				
Federally financed power	1,571	0	0	1,571
Nonpower	192	0	0	192
Total investment	1,762	0	0	1,762
Investment repaid:				
Federally financed power	1,178	0	45	1,223
Nonpower	192	0	0	192
Total investment repaid	1,369	0	45	1,415
Investment unpaid:				
Federally financed power	393	0	(45)	347
Total investment unpaid	393	0	(45)	347
Percent of investment repaid to date:				
Federal	74.99%			77.88%
Nonpower	100.00%			100.00%

¹ Based on the preliminary 1999 Power Repayment Study.

Washoe Project

Energy Resource and Disposition

	(GWh)	
	FY 1999	FY 1998
Energy resource		
Net generation	15	11
Total energy resources	15	11
Energy disposition		
Sales of electric energy		
Western sales	15	11
Total energy sales	15	11
Total energy delivered	15	11
Total energy disposition	15	11

Powerplants

Plant name	Operating agency	River	Initial in-service date	Existing number of units	Installed capacity FY 1999 (MW)	Actual operating capability (MW)		Net generation (GWh) ¹	
						July 1, 1999	July 1, 1998	FY 1999	FY 1998
California									
Stampede	Reclamation	Little Truckee	Dec 86	1	3	3	3	15	11
Washoe Total				1	3	3	3	15	11

¹ Net generation is gross plant generation less plant use. These amounts have not been reduced by other priorities such as project pumping energy.

Reclamation - Bureau of Reclamation, U.S. Dept. of the Interior

Nonfirm Power Rate Provisions

Fiscal year	Rate schedule designation	Capacity charge (\$/kW of billing demand)	Energy charge not in excess of delivery obligations	Effective date	Annual composite rate
1999	SNF-4	None	Floor: 19 mills/kWh Ceiling: 80 mills/kWh	10/01/95	N/A

Marketing Plan Summary

Project	Expiration Date
Washoe Projects	Dec. 31, 2004

Power Sales and Revenue

Customer	1999		1998	
	Energy (MWh)	Revenue (\$)	Energy (MWh)	Revenue (\$)
Investor-owned utilities				
Nevada				
Sierra-Pacific Power Co.	15,191	271,773	10,916	64,293
Subtotal Nevada	15,191	271,773	10,916	64,293
Total Investor-owned utilities	15,191	271,773	10,916	64,293

Washoe Project

Status of Repayment

Cumulative activities as of Sept. 30, 1999
(Dollars in thousands)

	Cum. 1998	Adjustments	Annual 1999	Cum. 1999
Revenue:				
Gross operating revenue	1,335	377 ¹	155	1,867
Total operating revenue	1,335	377	155	1,867
Expenses:				
O & M and other	1,958	(36) ²	95	2,017
Interest				
Federally financed	3,410	(706) ³	273	2,977
Total interest	3,410	(706)	273	2,977
Total expense	5,368	(742)	368	4,994
(Deficit)/surplus revenue	(4,033)	1,119	(213)	(3,127)
Investment:				
Federally financed power	4,395	0	114	4,509
Total investment	4,395	0	114	4,509
Investment unpaid:				
Federally financed power	4,395	0	114	4,509
Total investment unpaid	4,395	0	114	4,509

¹ Project use revenue not reported in the financial statements and adjustments due to agencies review of project revenues and costs.

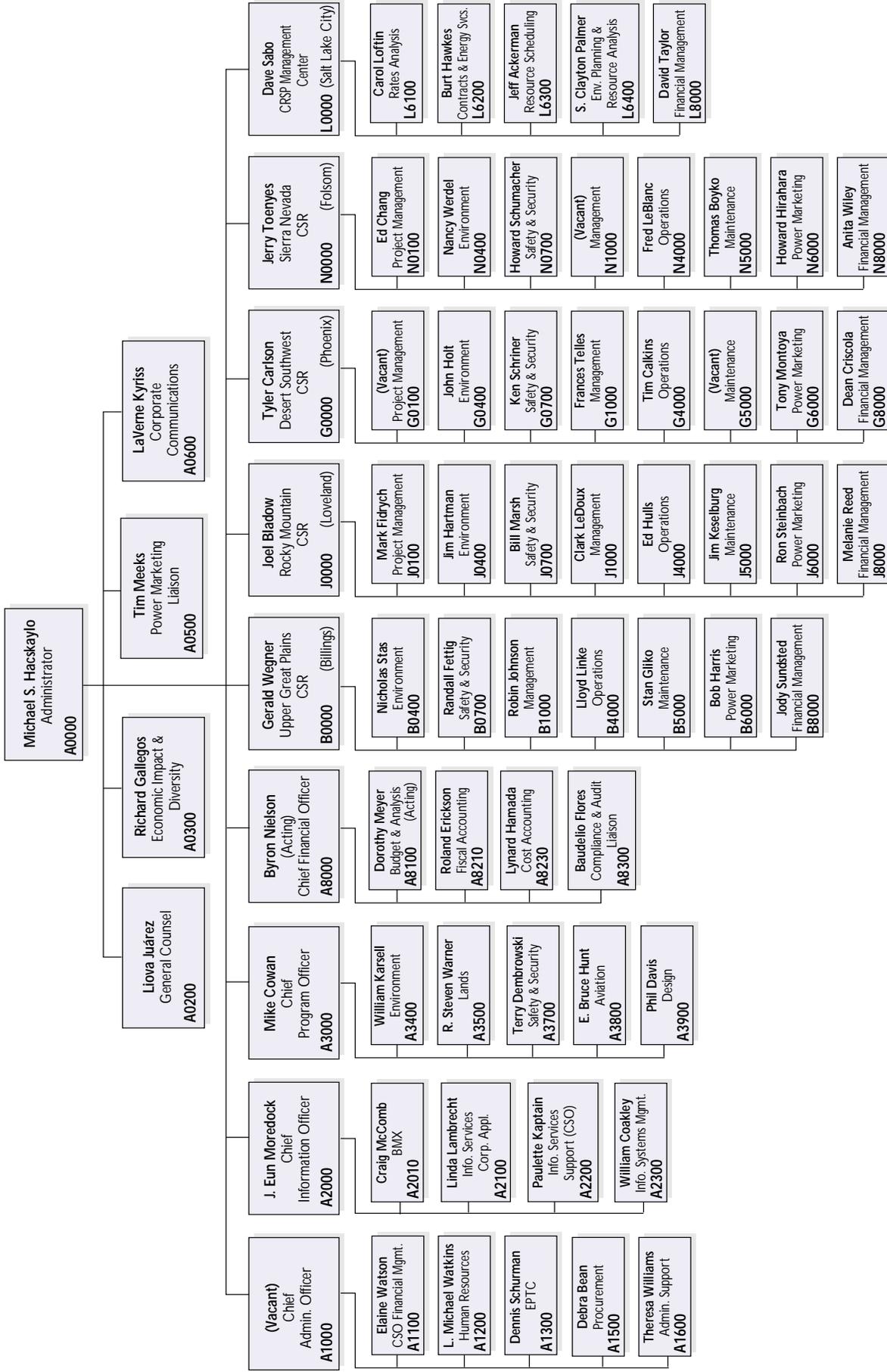
² O&M and other expenses includes project use and power adjustments due to agencies' review of project costs and revenue.

³ Adjustment due to agencies' review of project costs and revenues.

1000 MANAGEMENT DIRECTORY

Name/Title	Telephone
Jeff Ackerman CRSP MC resource scheduling lead	970-240-6209
Debra Bean Procurement manager	720-962-7160
Joel Bladow RM regional manager	970-490-7201
Tim Calkins DSW operations manager	602-352-2645
Tyler Carlson DSW regional manager	602-352-2453
Bill Coakley Information systems management manager	720-962-7480
Mike Cowan Chief program officer	720-962-7245
Dean Criscola DSW financial manager	602-352-2566
Phil Davis Design manager	720-962-7330
Terrence Dembrowski Safety and security manager	720-962-7292
Roland Erickson Fiscal accounting manager	720-962-7460
Randall Fettig UGP safety and security manager	406-247-7397
Bob Flores Compliance and audit liaison manager	720-962-7440
Richard Gallegos Economic impact and diversity manager	720-962-7044
Stan Gliko UGP maintenance manager (Huron)	605-353-9400
Michael S. HacsKaylo Administrator	720-962-7077
Lynard Hamada Cost accounting manager	720-962-7520
Bob Harris UGP power marketing manager	406-247-7394
Jim Hartman RM environmental manager	970-490-7450
Burt Hawkes CRSP MC contracts and energy services lead	801-524-3344
Howard Hirahara SN power marketing manager	916-353-4421
John Holt DSW environmental manager	602-352-2592
Ed Hulls RM operations manager	970-490-7566
E. Bruce Hunt Aviation manager	720-962-7313
Robin Johnson UGP administrative officer	406-247-7426
Liova Juárez General counsel	720-962-7015
Paulette Kaptain Information services CSO support manager	720-962-7130
William Karsell Environmental manager	720-962-7252
Jim Keselburg RM maintenance manager	970-490-7261
LaVerne Kyriss Corporate communications manager	720-962-7051

Name/Title	Telephone
Linda Lambrecht Information services corporate applications mgr	720-962-7205
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Melanie Reed RM financial manager	970-490-7229
Dave Sabo CRSP MC manager	801-524-6372
Ken Schriner DSW safety and security manager	602-352-2695
Howard Schumacher SN safety and security manager	916-353-4461
Dennis Schurman Electric Power Training Center manager	720-962-7335
Nicholas Stas UGP environmental manager	406-247-7399
Ron Steinbach RM power marketing manager	970-490-7370
Jody Sundsted UGP financial manager	406-247-7417
David Taylor CRSP MC financial manager	801-524-5503
Frances Telles DSW administrative officer	602-352-2404
Jerry Toenyes SN regional manager	916-353-4418
Steve Warner Lands manager	720-962-7270
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Elaine Watson CSO financial manager	720-962-7090
Gerald Wegner UGP regional manager	406-247-7405
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Theresa Williams CSO administrative support manager	720-962-7170
Vacant Chief administrative officer	720-962-7070
Vacant DSW maintenance manager	602-352-2440
Vacant SN administrative officer	916-353-4524



Western Area Power Administration

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